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#07  
4-29-03  
gma

PATENT APPLICATION  
Attorney Docket No. D/A1055  
Application No.: 09/683,237

CERTIFICATE OF MAILING

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On: 4/11/03

Typed or printed name of person signing this certificate  
Lisa Andreasen

Signature: Lisa Andreasen

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application of: Laurence Hubert et al.	)	Art Unit: 2172
Appl. No.: 09/683,237	)	Examiner: Isaac M. Woo
Filed: December 5, 2001	)	

Title: SYSTEM WITH USER DIRECTED ENRICHMENT AND IMPORT/EXPORT  
CONTROL

Commissioner for Patents  
Washington, D.C. 20231

**LETTER TO CHIEF DRAFTSPERSON**

Sir:

Enclosed are sixty-nine (69) sheets of formal drawings depicting Figures 1-68.  
Please substitute these drawings for those currently on file in the subject application.

Respectfully submitted,

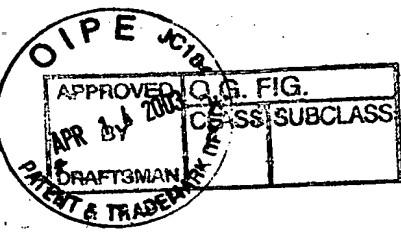
Thomas Zell  
Thomas Zell  
Attorney for Applicant(s)  
Registration No. 37,481  
Telephone: 650-812-4282

Xerox Corporation  
Grenoble, France  
Date: 04/04/03

Technology Center 2100

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**RECEIVED**



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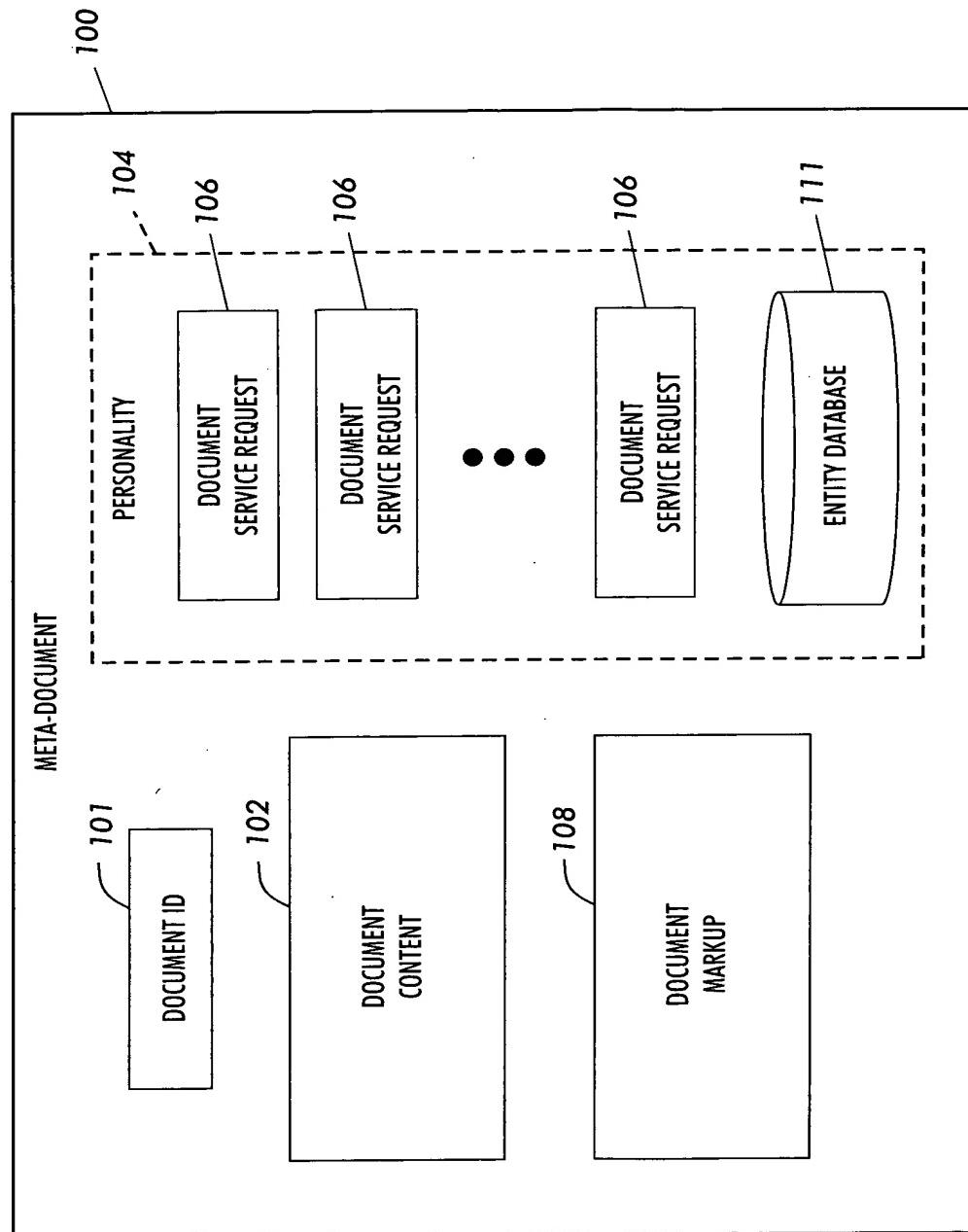


FIG. 1

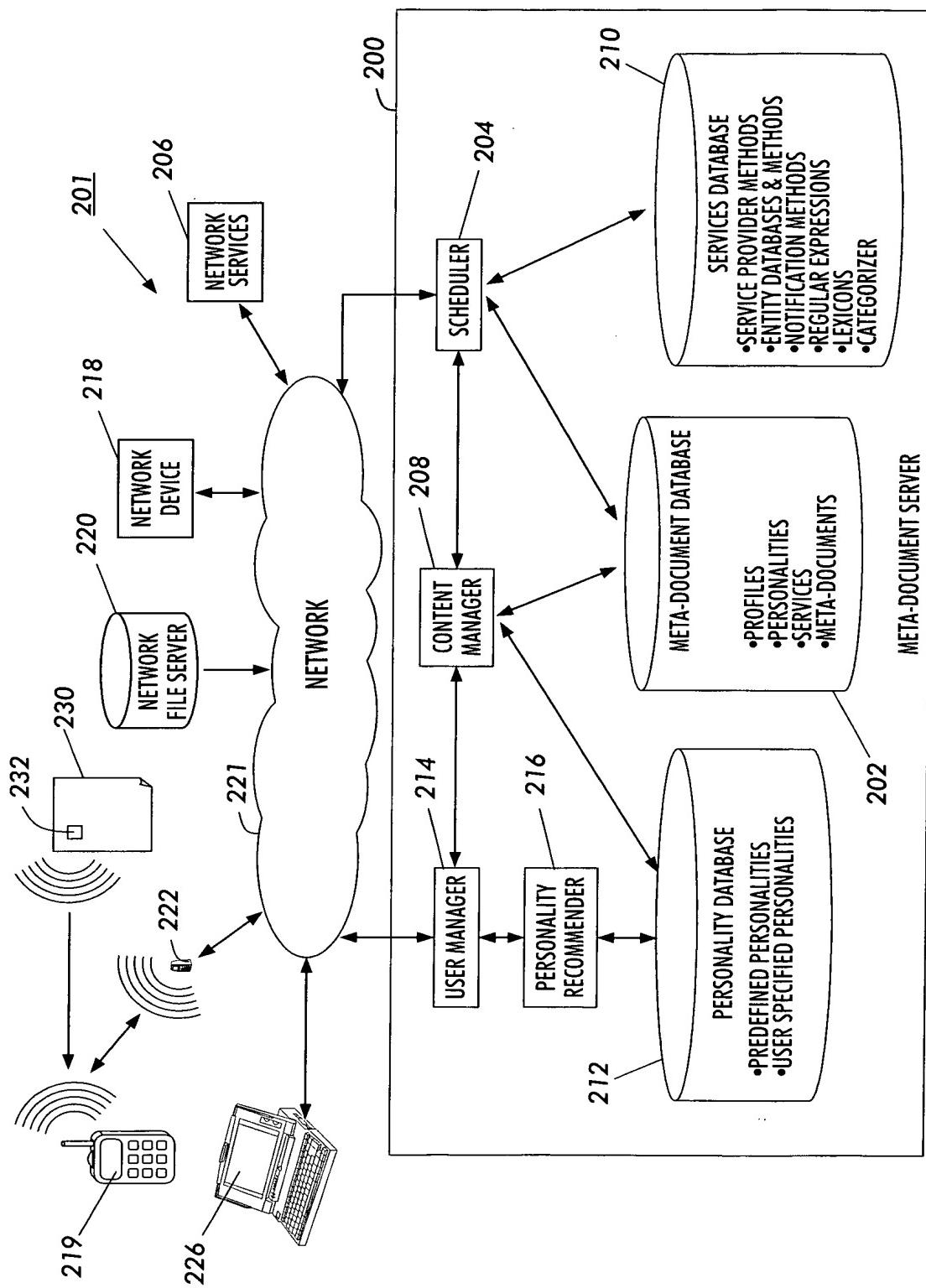


FIG. 2

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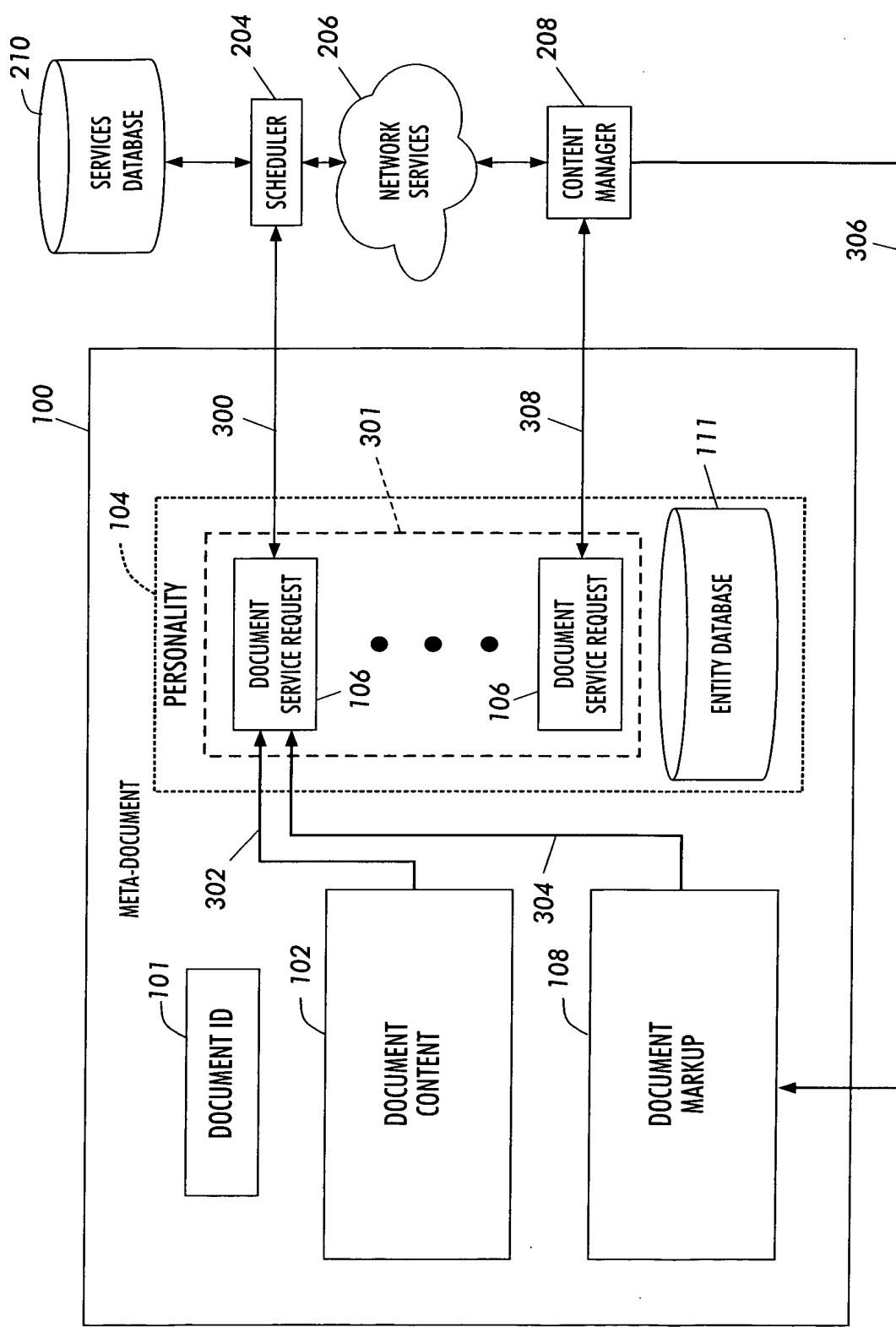


FIG. 3



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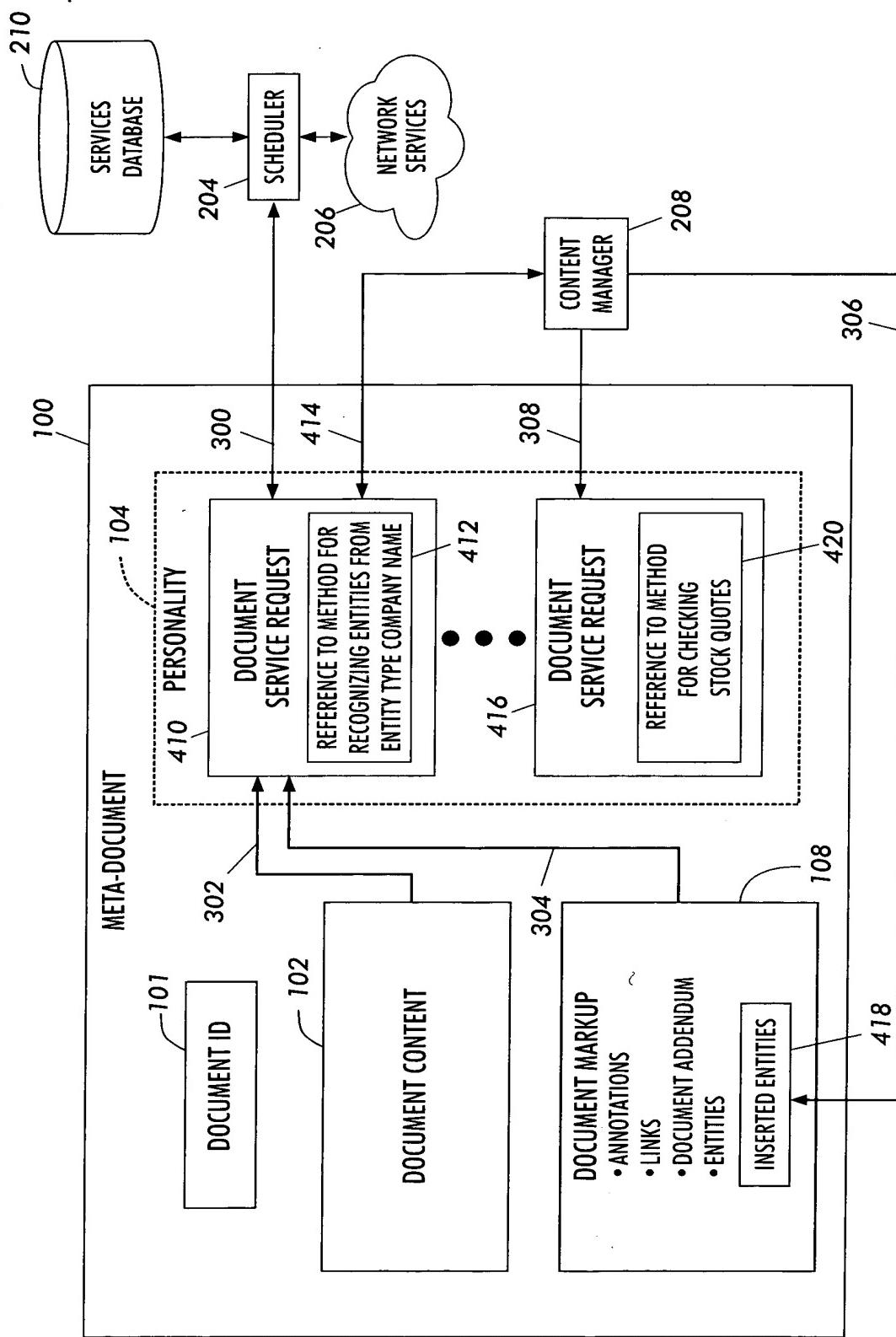


FIG. 4

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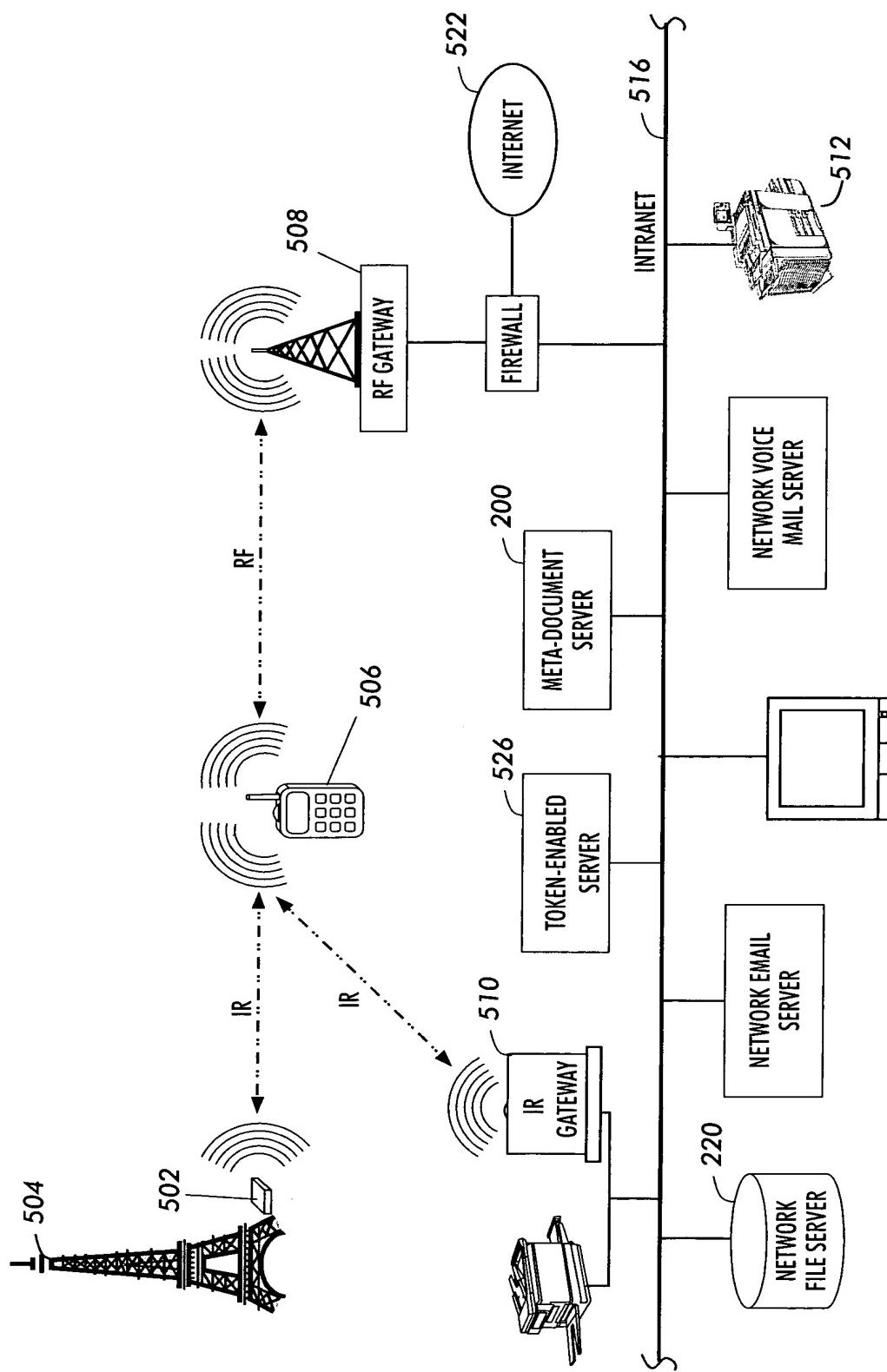
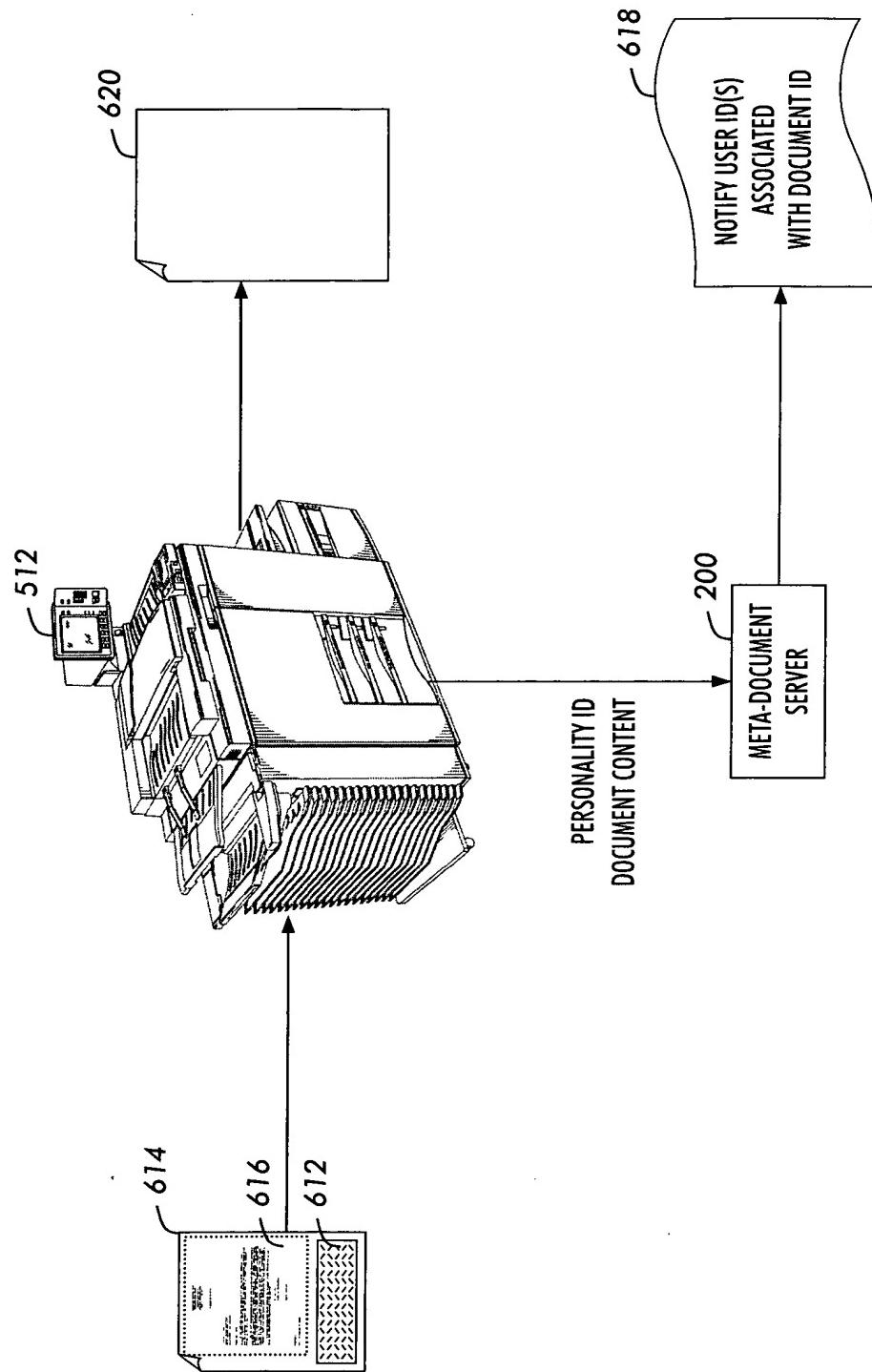


FIG. 5

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**FIG. 6**

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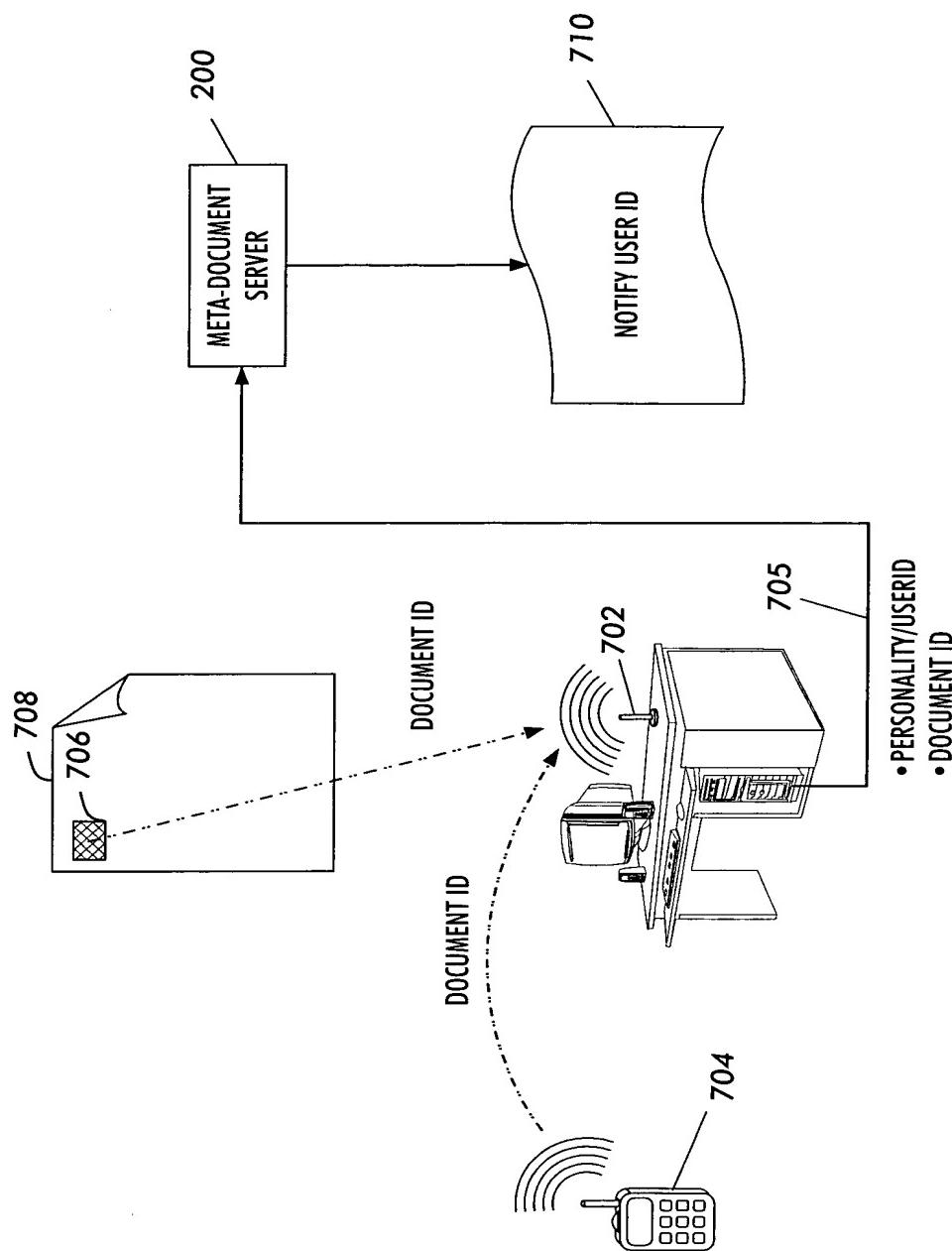


FIG. 7



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**PRINT**

PRINTER

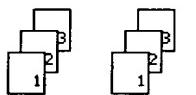
NAME:  PROPERTIES  
STATUS: IDLE 814  
TYPE: XEROX 4517 POSTSCRIPT LEVEL 2  
WHERE: TIMES.GRENOBLE.XRCE.XEROX.COM:PASSTHRU  PRINT TO FILE  
COMMENT: XEROX N2125 B&W DUPLEX - LE CHATEAU - 2ND FLOOR

PAGE RANGE

ALL  
 CURRENT PAGE  
 PAGES:

ENTER PAGE NUMBERS AND/OR PAGE RANGES  
SEPERATED BY COMMAS. FOR EXAMPLE 1,3,5-12

COPIES

NUMBER OF COPIES:  COLLATE  
  COLLATE  
806

ENRICHMENT

PERSONALITY: BUSINESS  SELECT A PERSONALITY FOR ME

APPLY ENRICHMENT TO:

ALL  
 CURRENT PAGE  
 PAGES:

INSERT ENRICHMENT AS:

LINKS  
 CONTENT

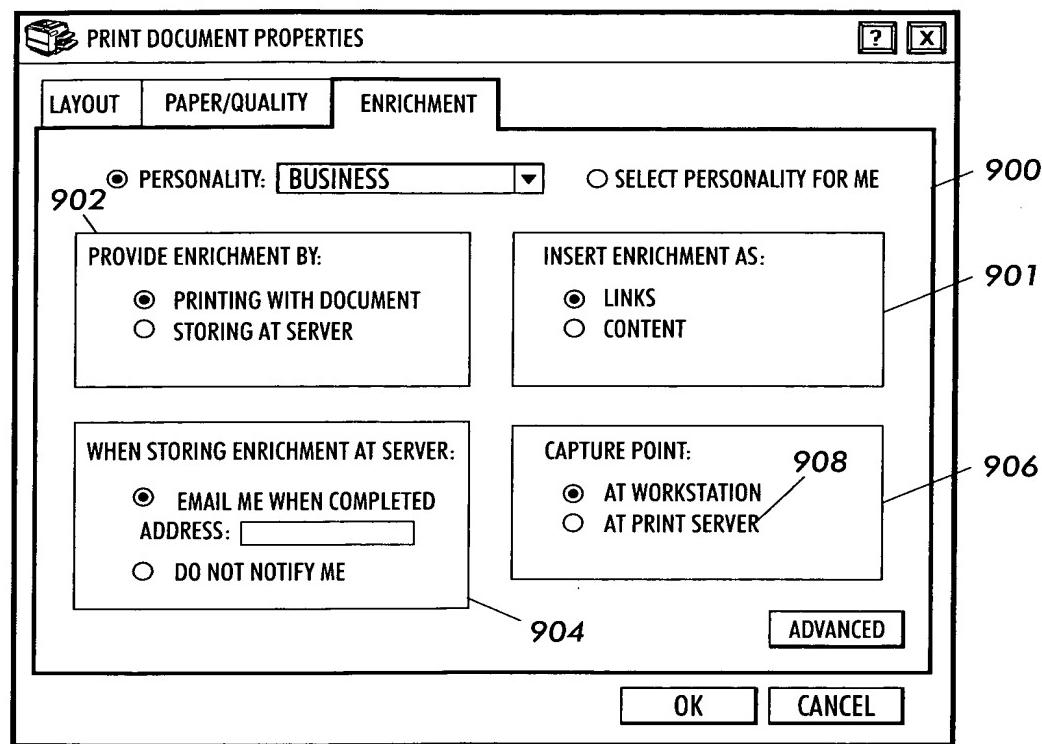
PRINT WHAT: DOCUMENT ZOOM 802 810  
PRINT: ALL PAGES IN RANGE PAGES PER SHEET: 1 PAGE  
OPTIONS... OK CANCEL  
800

**FIG. 8**



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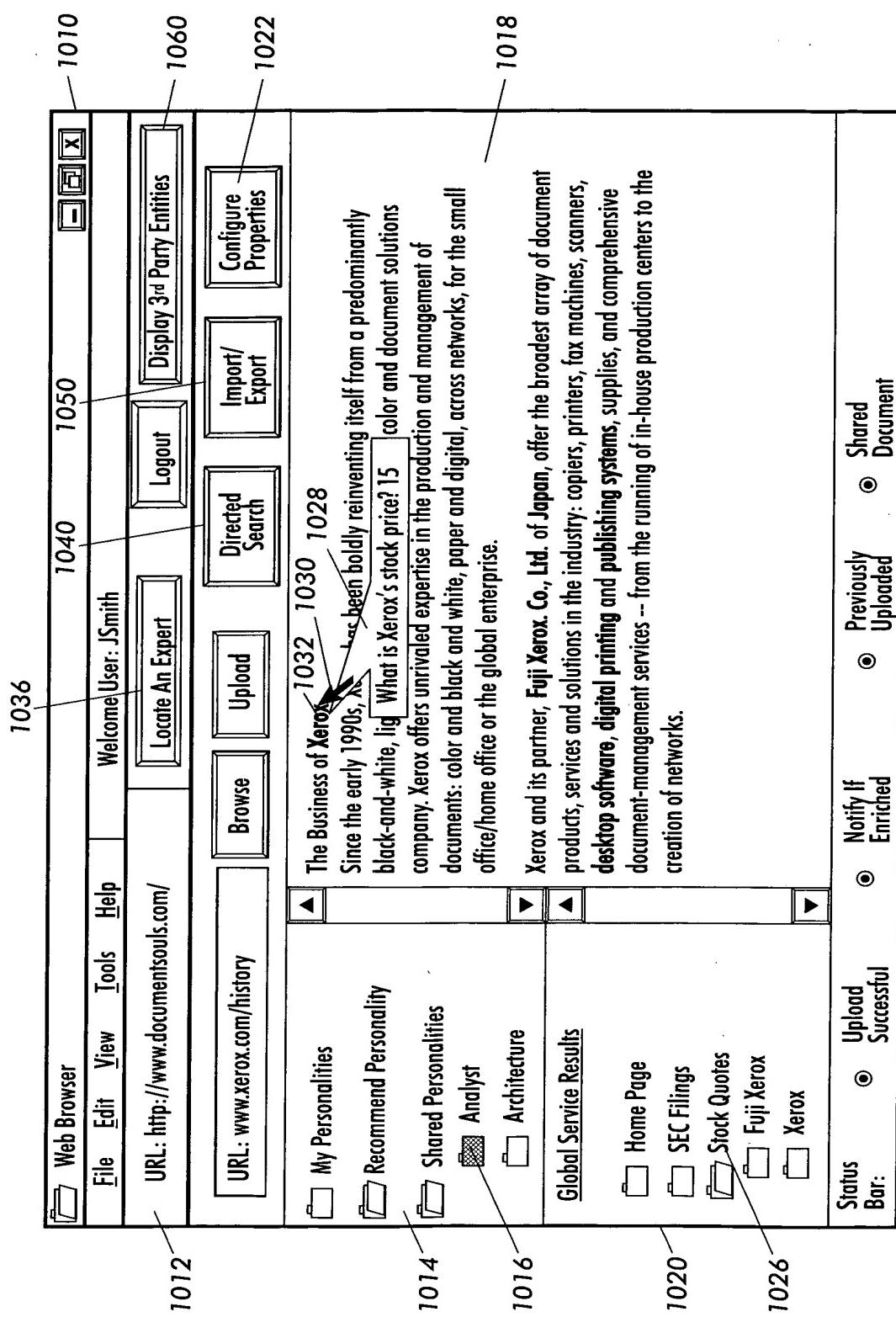


**FIG. 9**



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**FIG. 10**

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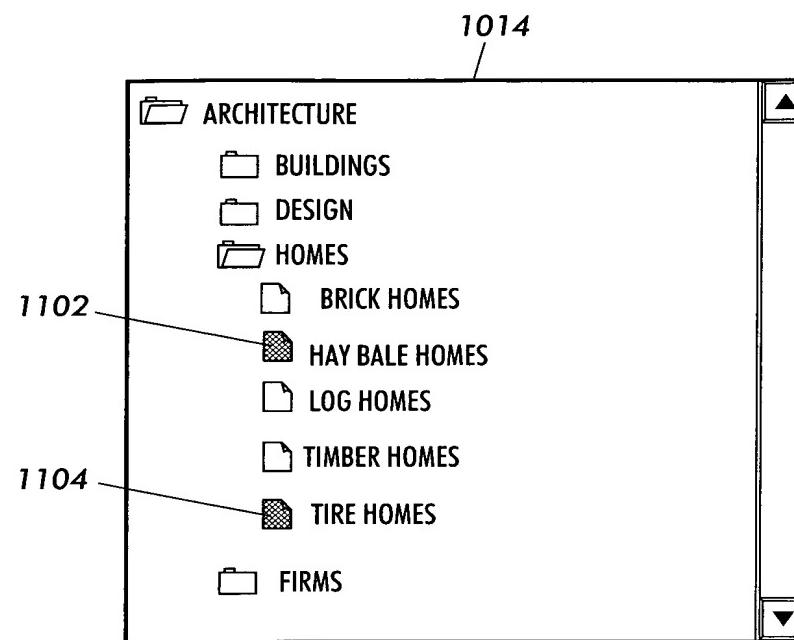


FIG. 11

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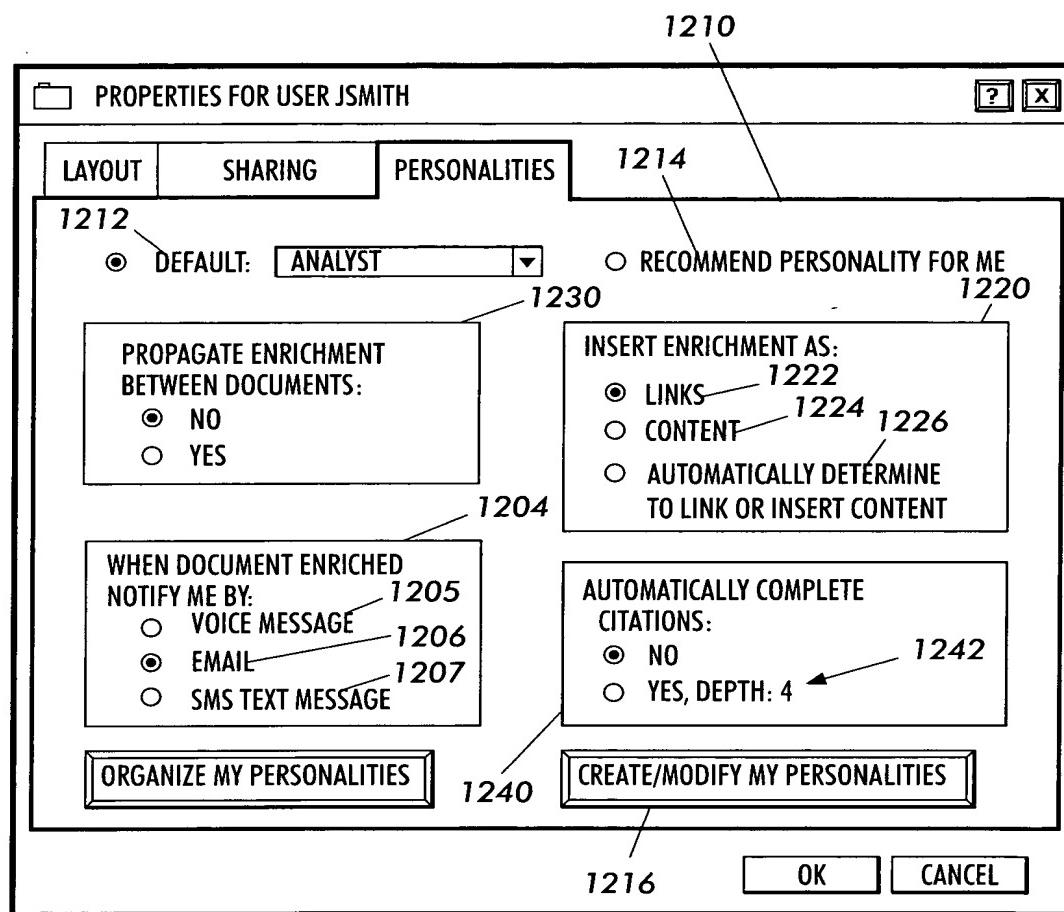


FIG. 12



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1310

CREATE/MODIFY A GROUP OF EXISTING PERSONALITIES

LIST OF AVAILABLE PERSONALITIES

1316

Name	Creation Date
Technology Watch in Computer Sciences	2001-03-16 14:08:06
Watch Business	2001-03-16 14:08:08
Watch Legal	2001-03-16 14:08:10
Watch Intellectual Property	2001-03-16 14:08:10
Scientific Watch in Medicine	2001-03-16 14:08:10

1312

LIST OF ALL WATCH BUSINESS SERVICES

those Services are classified by Service Categories, a ticked checkbox meaning that the according service is attached to the selected personality.

1318

Click on this icon to view all available service categories

1314

Search Engine

- luckygoogle People Google Lucky Result

Stock Quotes

- bloomberg Stock Quotes

OK CANCEL

FIG. 13

SEL	NAME	ENTITY TYPE	ANNOTATE	DEPTH	PROVIDER	COST	QUERY	REFRESH
<input checked="" type="checkbox"/>	COMPUTING	COMPUTING	ALWAYS	0	YAHOO	FREE	LINK	DAILY
<input type="checkbox"/>	BIOLOGY	BIOLOGY	ALWAYS	0	GOOGLELUCKY	NULL	LINK	NEVER
<input type="checkbox"/>	MEDICINE	MEDICINE	ALWAYS	0	ALTAVISTA	FREE	LINK	AUTO
<input type="checkbox"/>	APPLY PAIRS OF ENTITIES AND IDENTIFY 3RD PARTY ENTITIES	COMPANIES	EXPERT	0	GOOGLELUCKY	NULL	CONTENT	NULL
<input type="checkbox"/>	APPLY PAIRS OF ENTITIES USING GOOGLELUCKY	PRODUCTS	ALWAYS	2	NORTHERNLIGHTS	NULL	LINK	WEEKLY
<input type="checkbox"/>	COUNTRIES	COUNTRIES	NOVICE	0	GOOGLELUCKY	FREE	CONTENT	UNTIL 2003
<input type="checkbox"/>	ASTRONOMY	ASTRONOMY	ALWAYS	1	GOOGLE	NULL	LINK	MONTHLY
<input checked="" type="checkbox"/>	PEOPLE	PEOPLE	ALWAYS	3	GOOGLE, PEOPLE	NULL	LINK	NULL

1424

VIEW HIERARCHY  
SET DEPTH

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1432

FIG. 14

1404

1422

1420

1408

SEARCH ENGINE □ ◀

1318 1400 1426 1412 1414 1430 1442 1440 1444 1450

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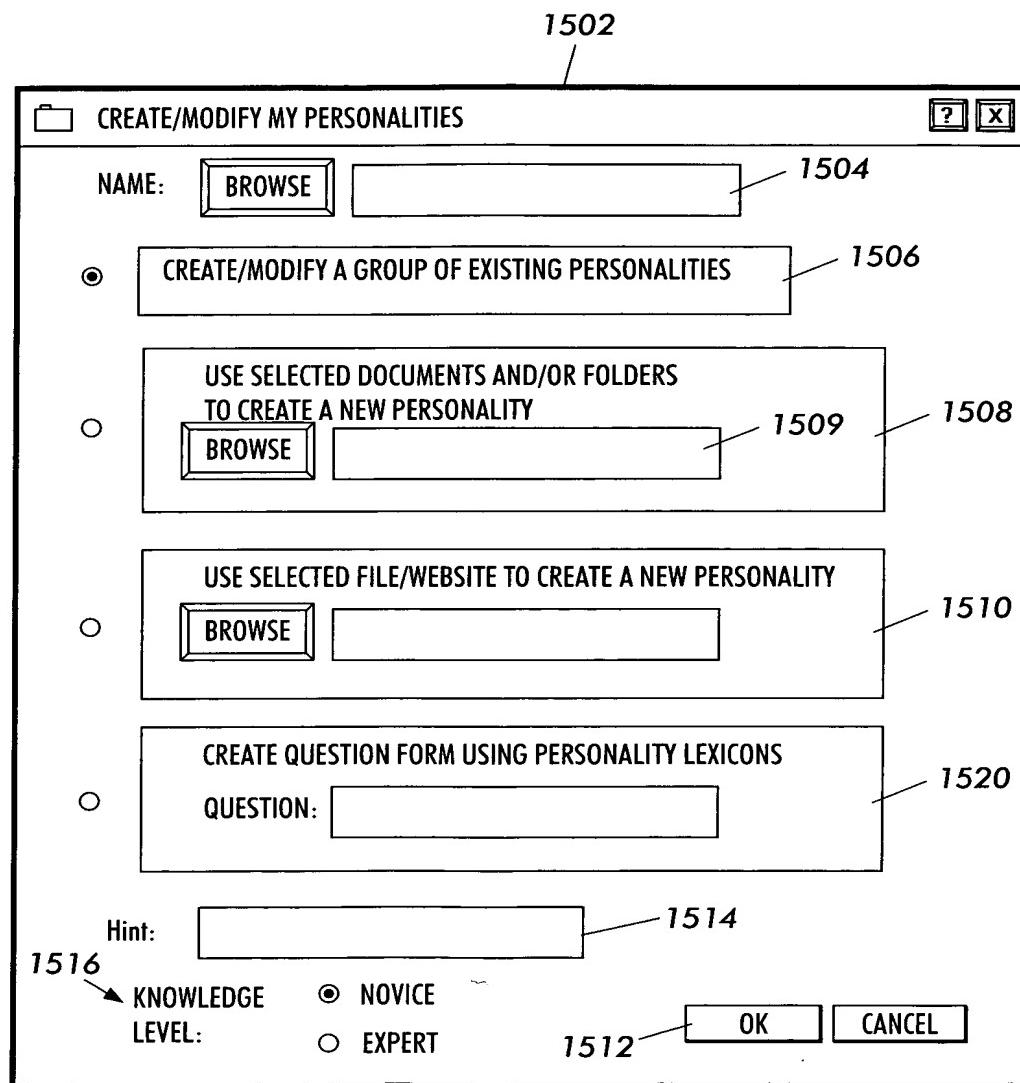


FIG. 15

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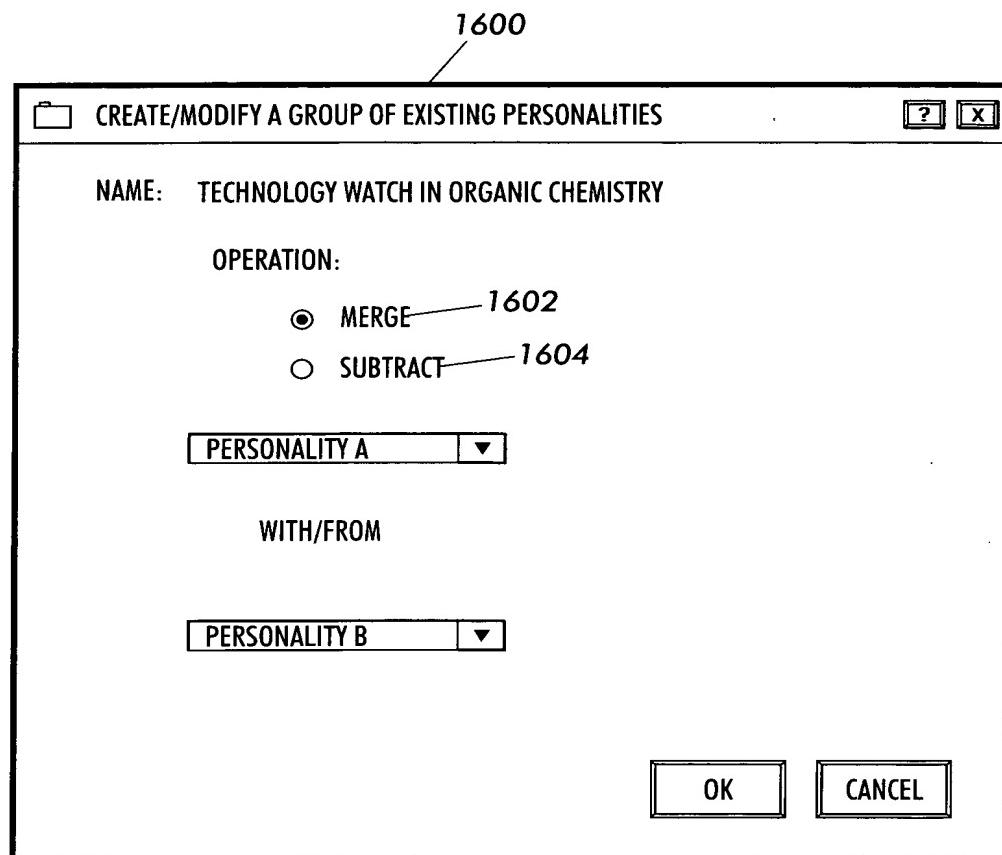


FIG. 16



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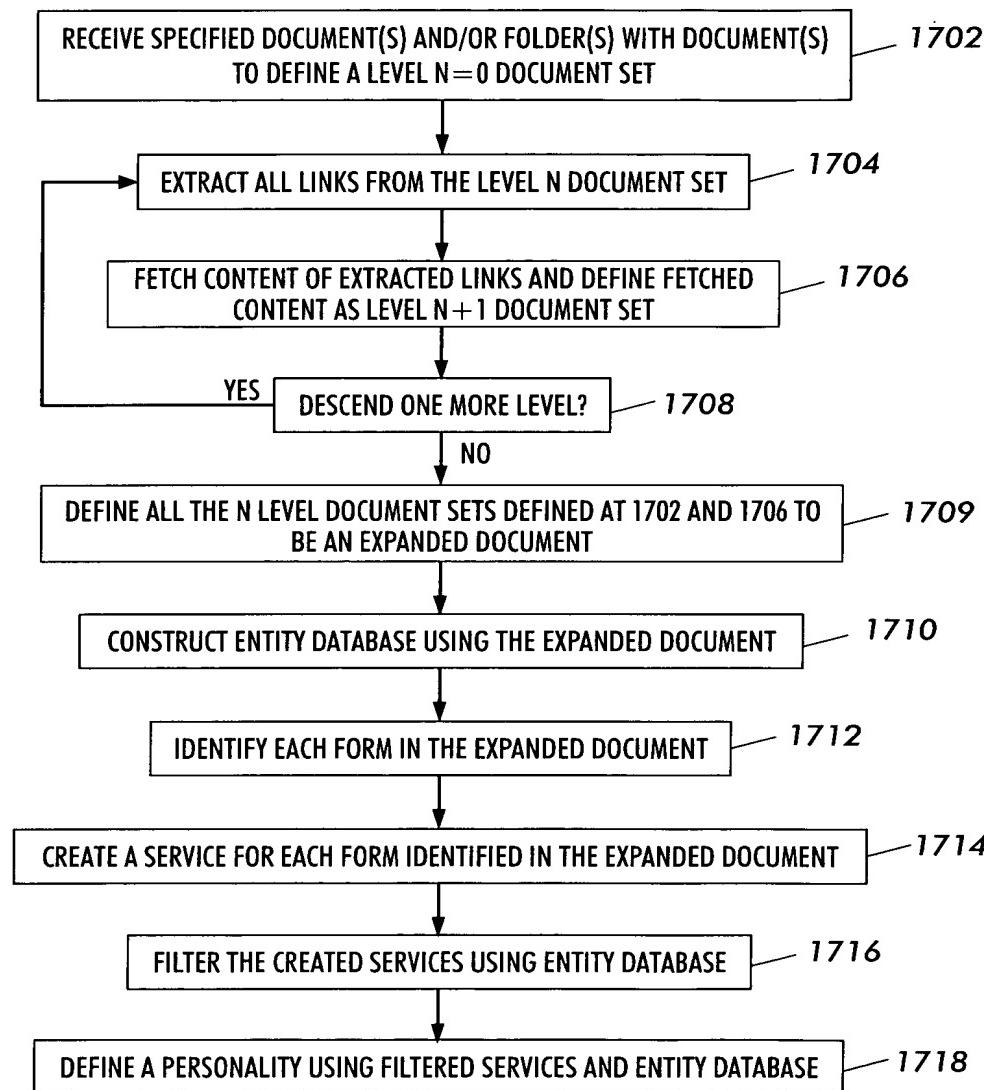


FIG. 17



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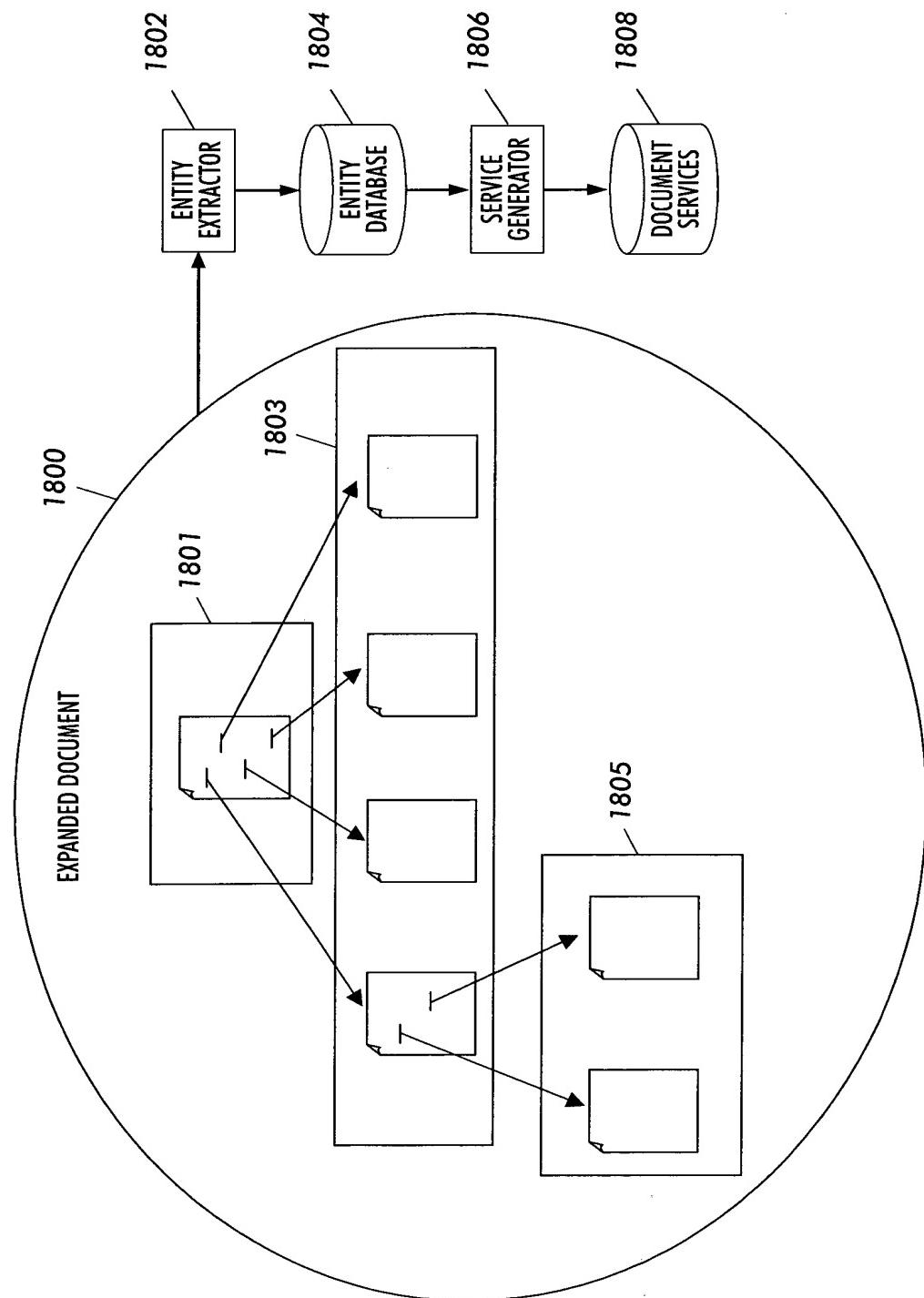


FIG. 18



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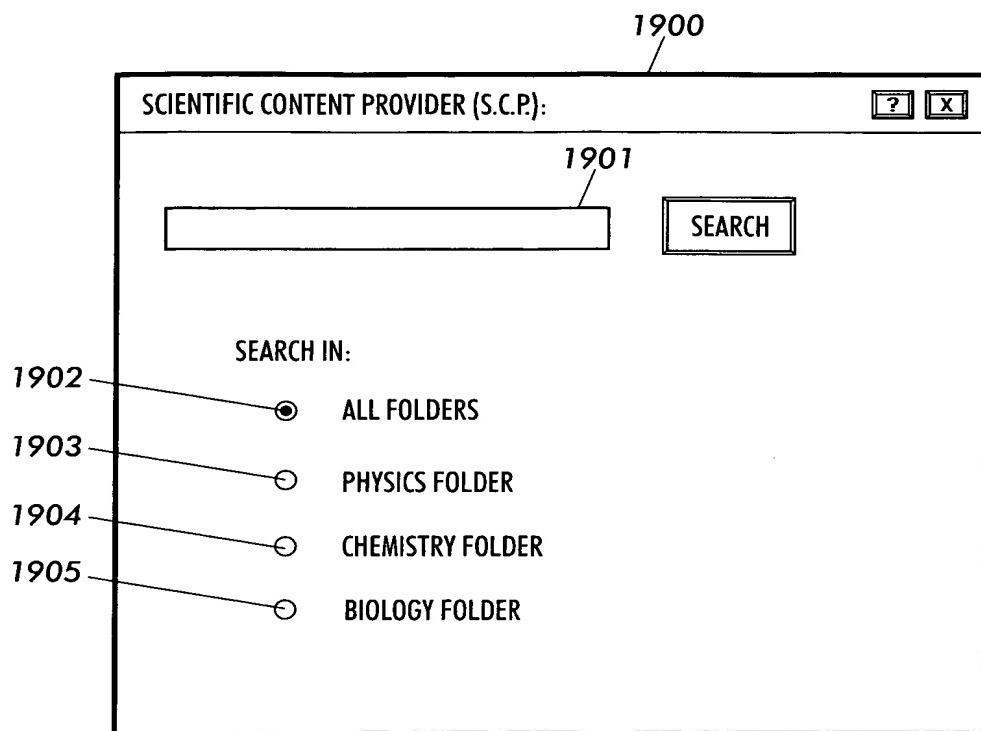


FIG. 19

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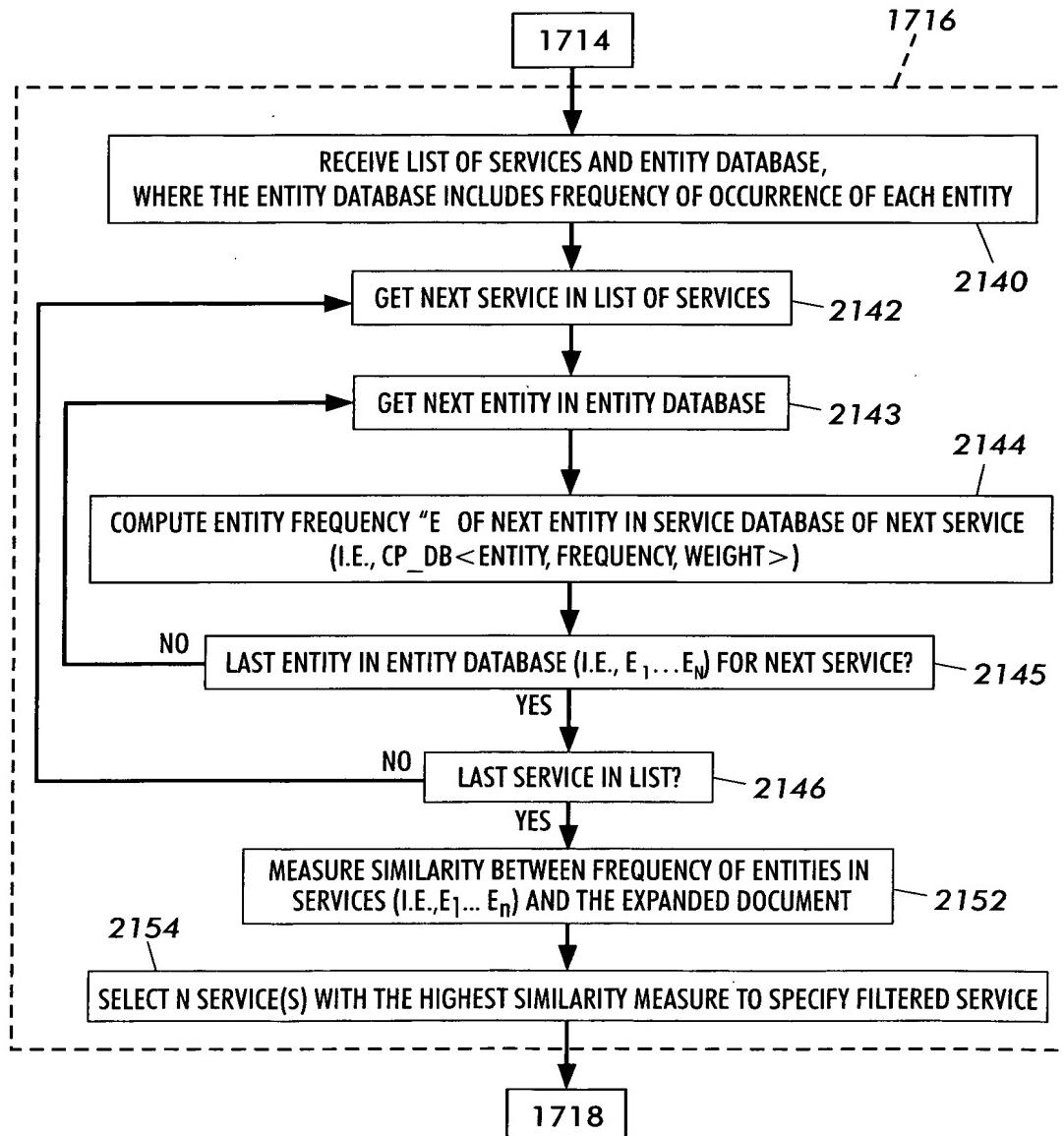
SEL	NAME	ENTITY TYPE	ANNOTATE	DEPTH	PROVIDER	COST	QUERY	REFRESH
<input checked="" type="checkbox"/>	ALL FOLDERS RESULT OF SCIENTIFIC CONTENT PROVIDER	STANDARD	ALWAYS	0	S.C.P.	FREE	CONTENT	NULL
<input type="checkbox"/>	PHYSICS RESULT OF SCIENTIFIC CONTENT PROVIDER	PHYSICS	ALWAYS	0	S.C.P.	FREE	CONTENT	NULL
<input type="checkbox"/>	CHEMISTRY RESULT OF SCIENTIFIC CONTENT PROVIDER	CHEMISTRY	ALWAYS	0	S.C.P.	FREE	CONTENT	NULL
<input type="checkbox"/>	BIOLOGY RESULT OF SCIENTIFIC CONTENT PROVIDER	BIOLOGY	ALWAYS	0	S.C.P.	FREE	CONTENT	NULL

2002

2004

FIG. 20

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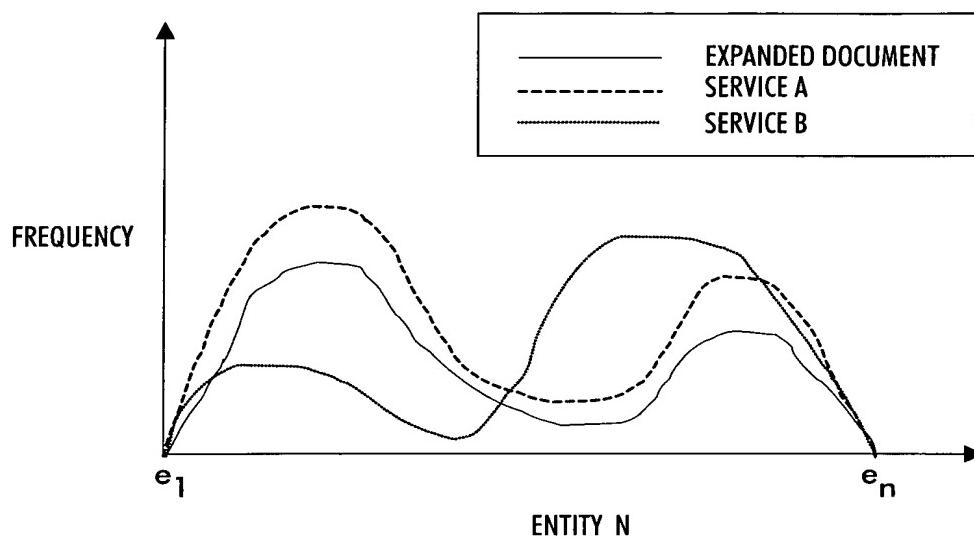


**FIG. 21**



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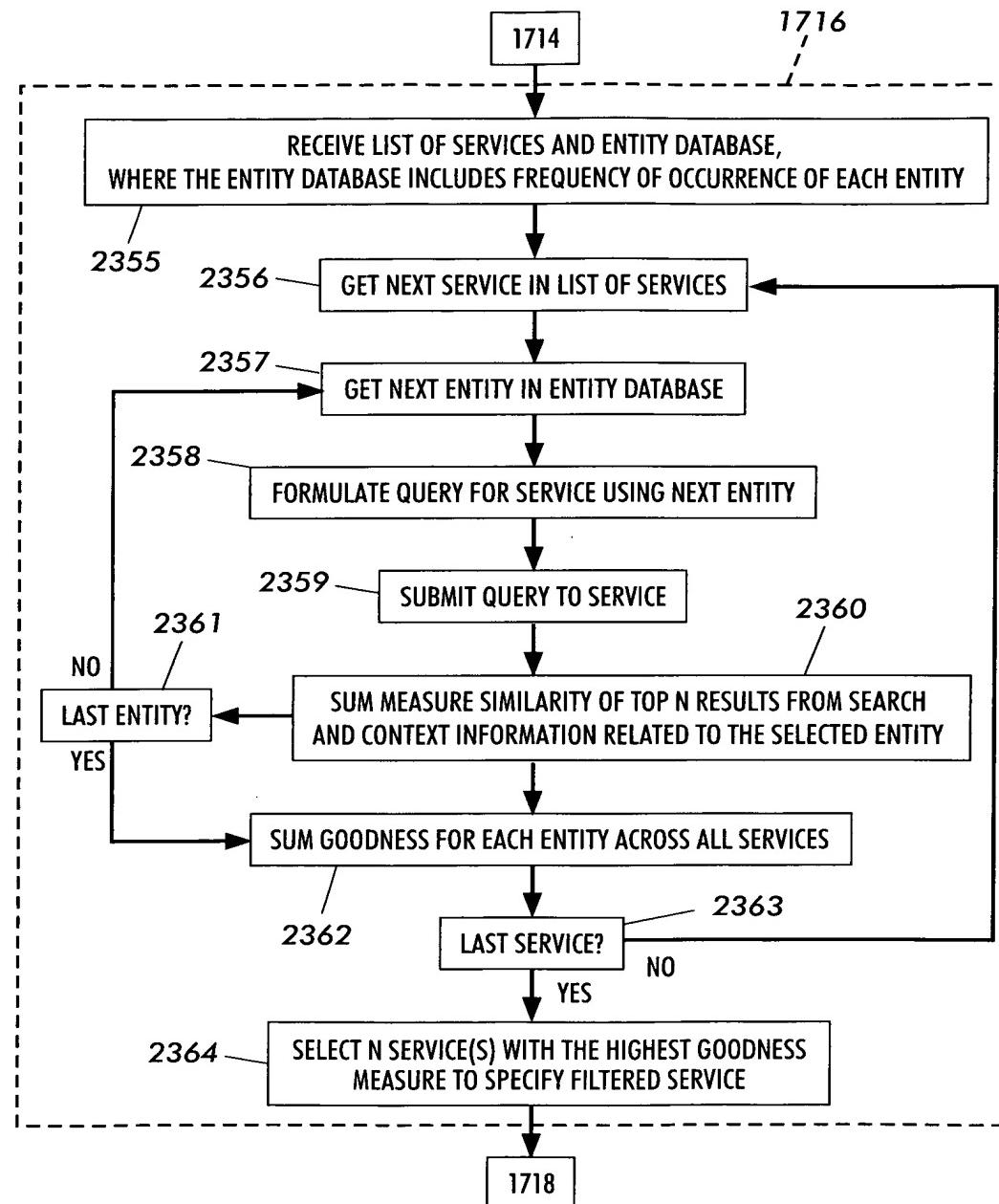


**FIG. 22**

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**FIG. 23**



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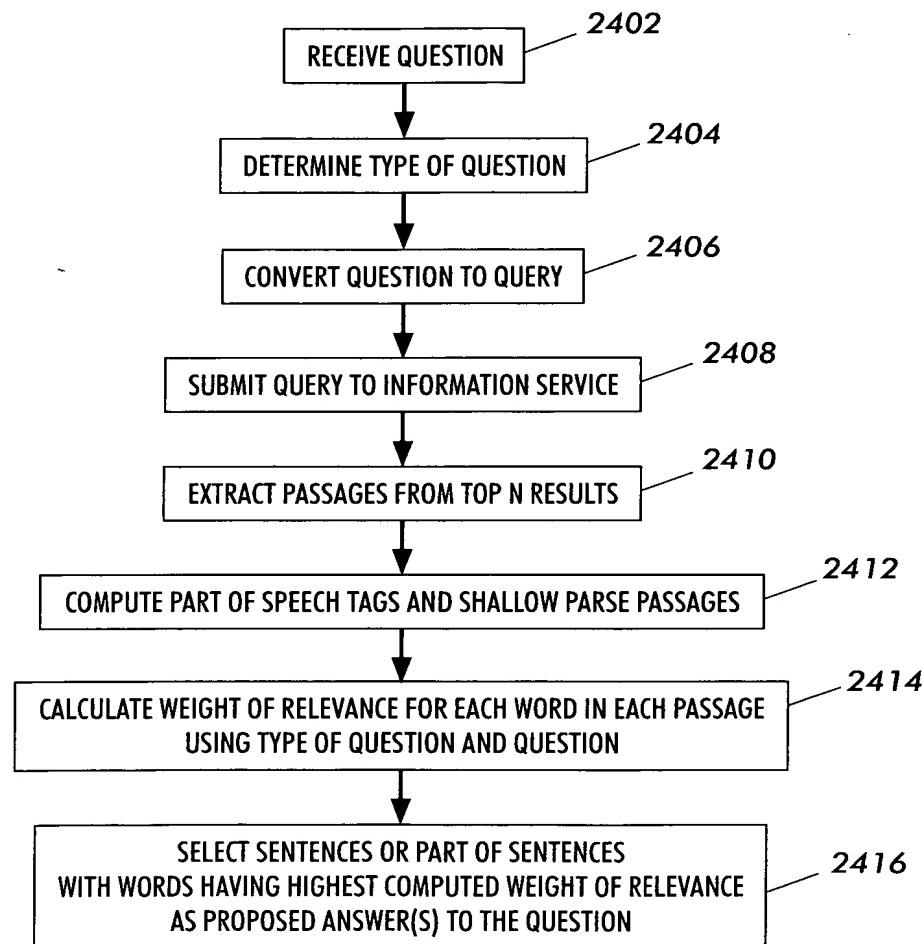


FIG. 24



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2502 /

E-LEARNING SERVICES ASSOCIATED WITH E-LEARNING PERSONALITY	
SEL	
2504	<input checked="" type="checkbox"/> LINK WORDS OR MULTWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR DEFINITIONS
2506	<input type="checkbox"/> LINK WORDS OR MULTWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR TRANSLATIONS
2508	<input type="checkbox"/> LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO A TUTORIAL CONCERNING EACH TEXT UNIT
2510	<input type="checkbox"/> LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO AN EXPERT CONCERNING IDENTIFIED SUBJECTS
2512	<input type="checkbox"/> LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO AN INTERACTIVE COURSE ABOUT IDENTIFIED SUBJECTS
2514	<input type="checkbox"/> LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO A LIST OF REAL WORLD CLASSES ABOUT IDENTIFIED SUBJECTS
2516	<input checked="" type="checkbox"/> LINK TEXT UNITS TO (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) LEARNING RESOURCES CONCERNING EACH TEXT UNITS

F/G. 25

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LANGUAGE LEARNING SERVICES ASSOCIATED WITH LANGUAGE LEARNING PERSONALITY	
SEL	
2604	<input checked="" type="checkbox"/> LINK WORDS OR MULTWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR DEFINITIONS
2606	<input type="checkbox"/> LINK WORDS OR MULTWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR TRANSLATIONS
2608	<input type="checkbox"/> LINK EACH SENTENCE, OR PHRASE, TO A GRAMMATICAL DESCRIPTION OF THE STRUCTURE OF THE SENTENCE OR PHRASE
2610	<input type="checkbox"/> LINK EACH WORD, MULTWORD EXPRESSION, PHRASE OR SENTENCE TO OTHER INSTANCES OF THE SAME IN DIFFERENT CONTEXTS FROM THE PRESENT
2612	<input type="checkbox"/> LINK EACH WORD, MULTWORD EXPRESSION, PHRASE OR SENTENCE TO ONE OR MORE INTERACTIVE GRAMMAR EXERCISES CONCERNING THAT ELEMENT
2614	<input checked="" type="checkbox"/> LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO A LIST OF REAL WORLD CLASSES ABOUT IDENTIFIED LANGUAGE
2616	<input checked="" type="checkbox"/> LINK TEXT UNITS TO (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) LANGUAGE LEARNING RESOURCES CONCERNING EACH TEXT UNITS

2602

FIG. 26



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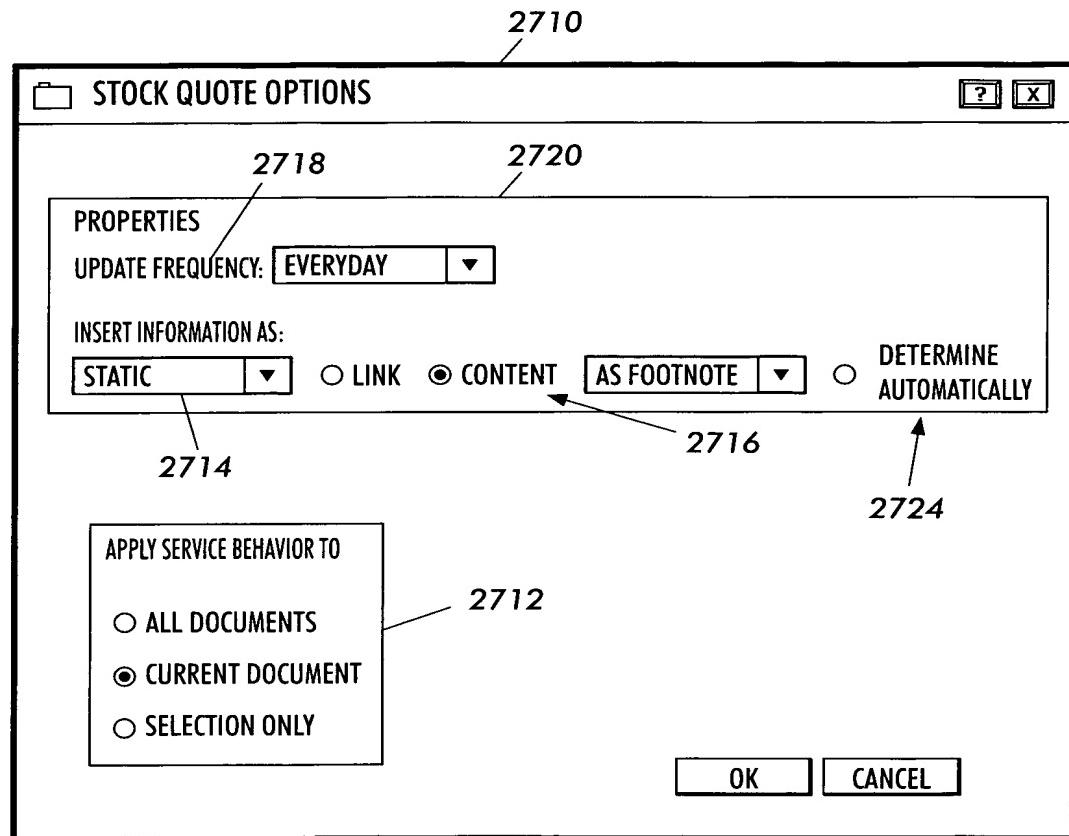


FIG. 27

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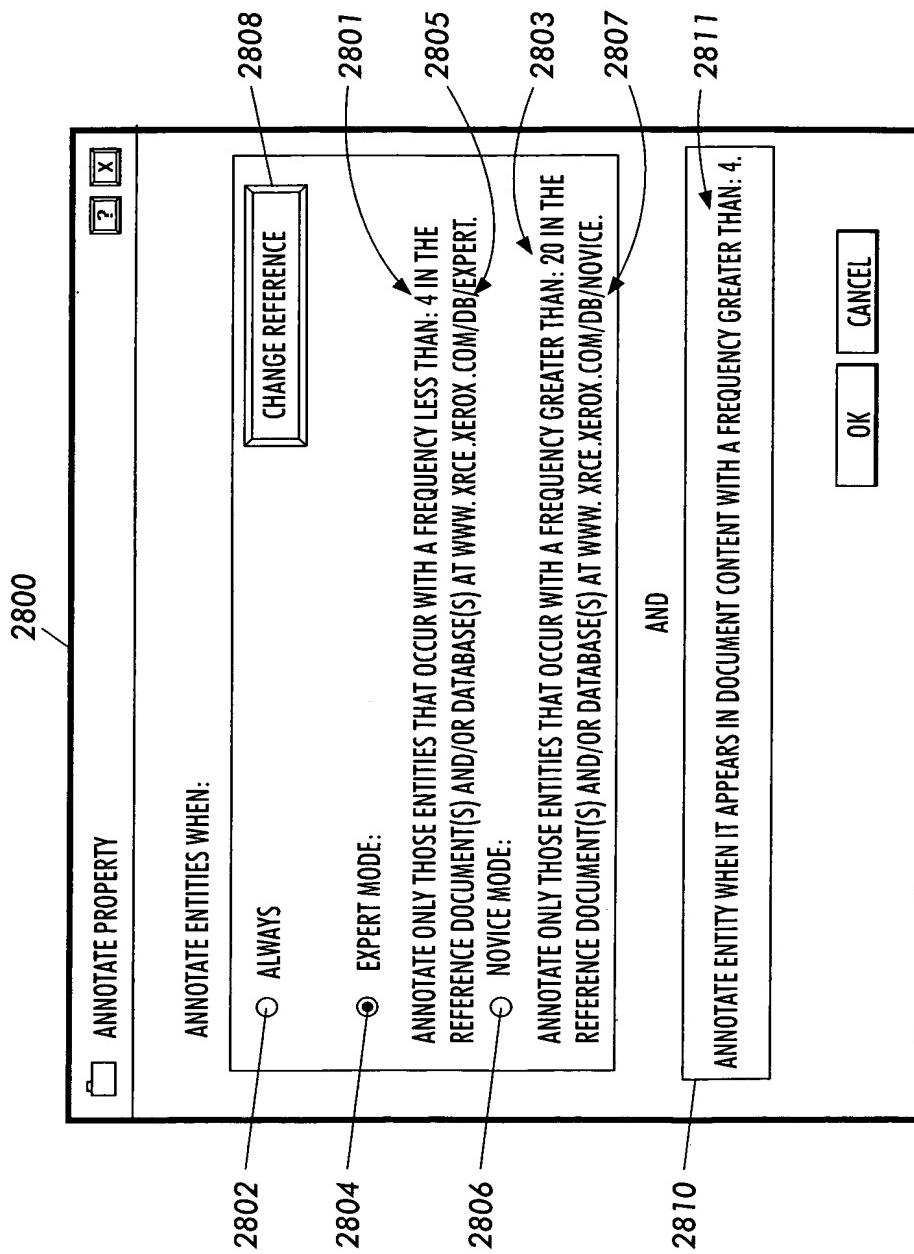
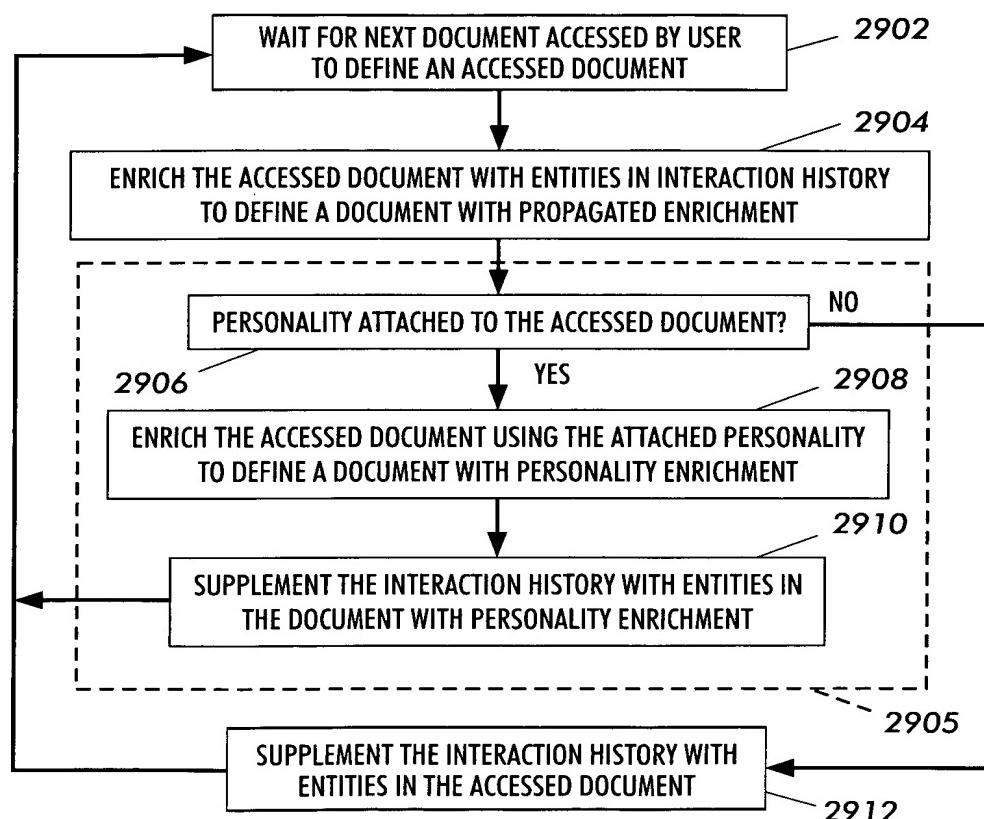


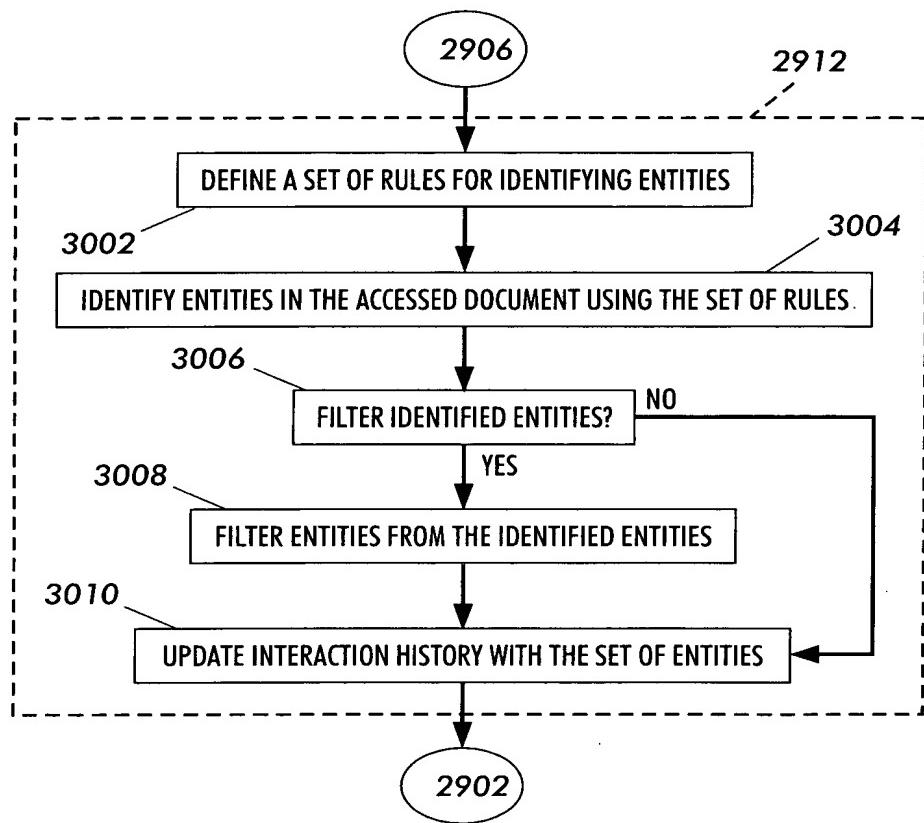
FIG. 28

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**FIG. 29**

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**FIG. 30**

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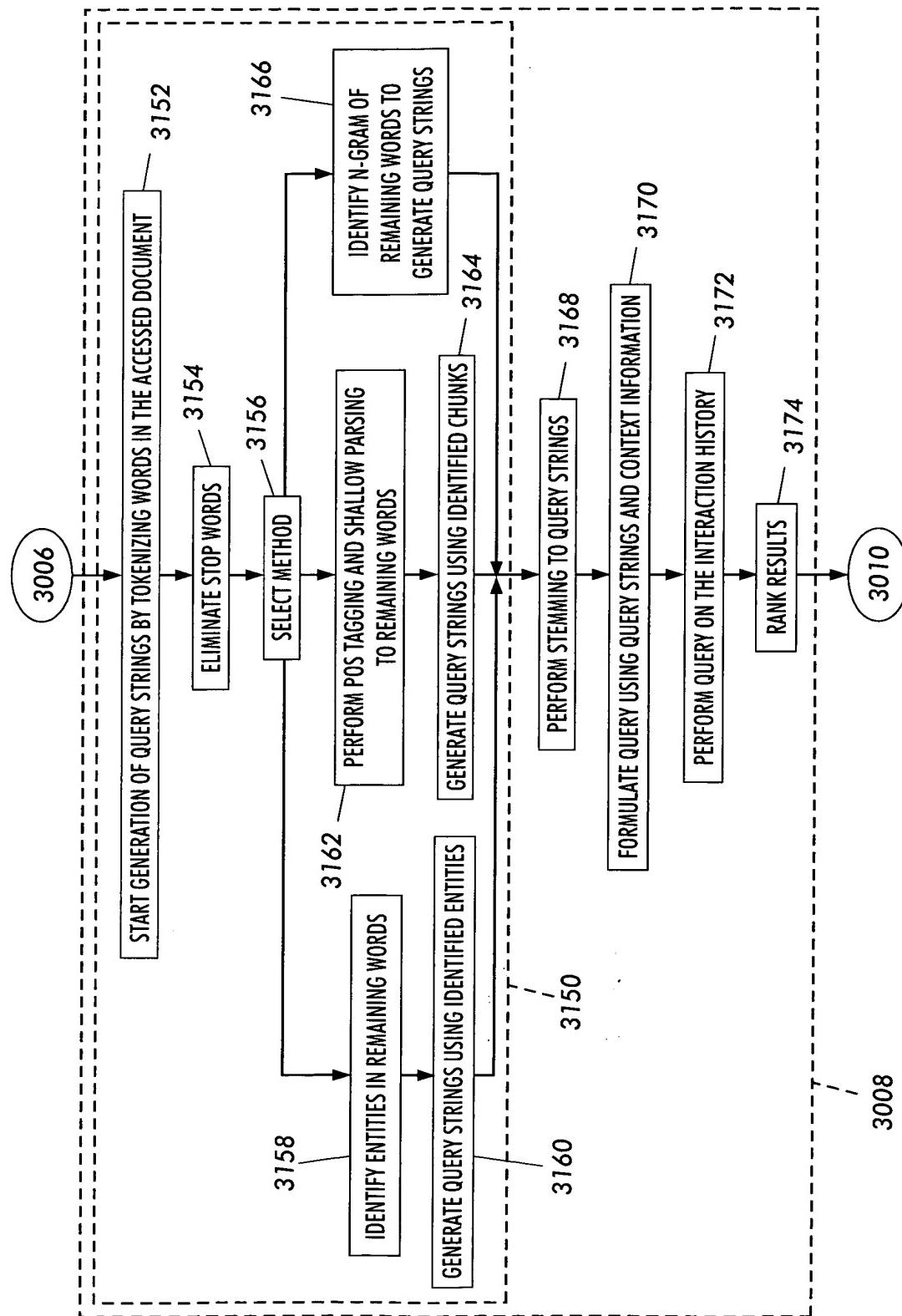


FIG. 31



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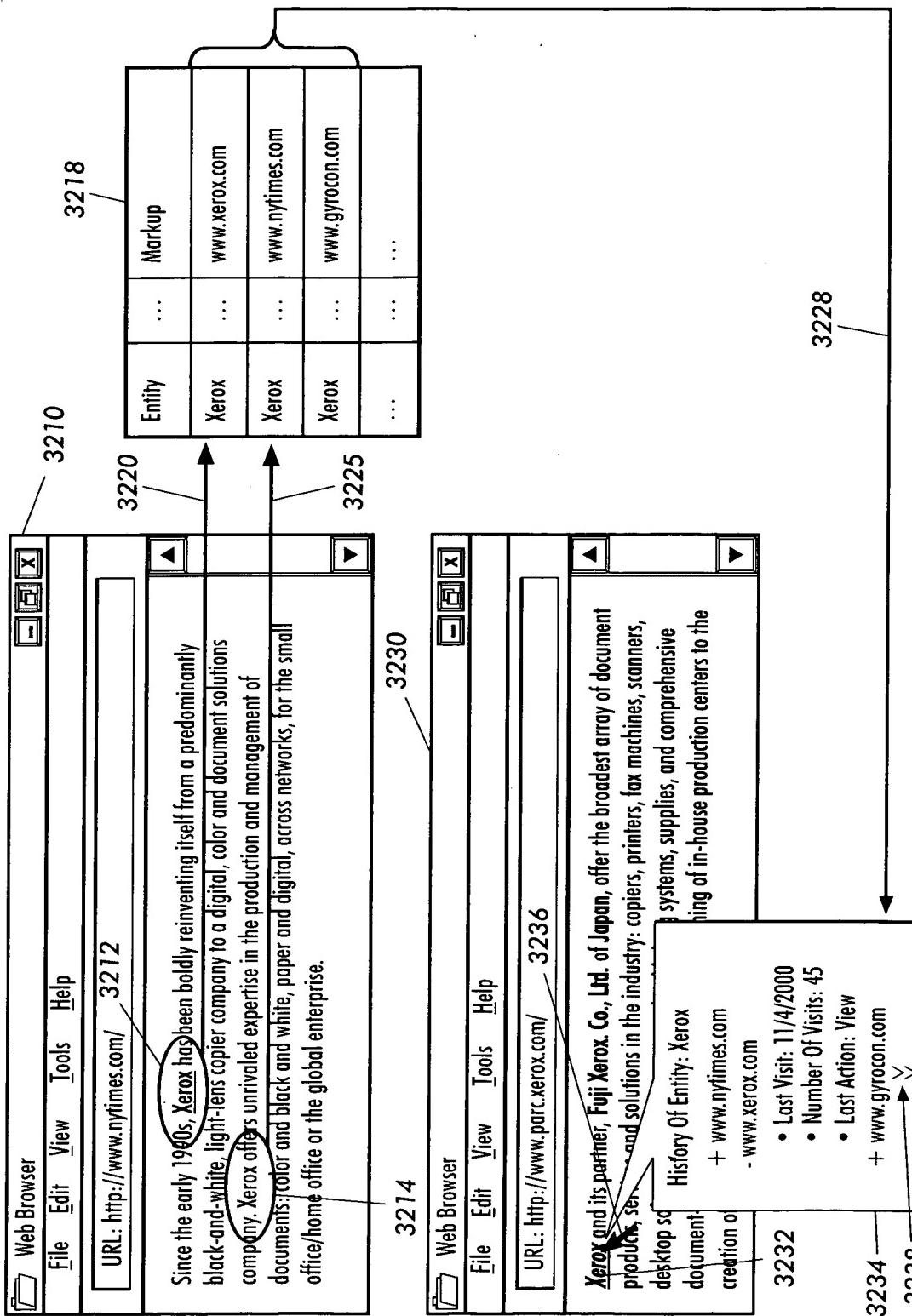


FIG. 32



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ENTITY	ENTITY TYPE	VISITS	LAST VISIT	ACTION LIST	DMOZ CATEGORY	LOCATION	POS	MARKUP
XEROX	BUSINESS	45	11/4/2000	VIEW(43), PRINT(2)	BUSINESS	40	NOUN	WWW.XEROX.COM
XEROX	BUSINESS	1	5/1/2001	VIEW(1)	FINANCE	689	NOUN	WWW.NYTIES.COM
XEROX	BUSINESS	4	2/22/2001	EMAIL(1), VIEW(3)	COMPUTER	343	NOUN	WWW.GYROCON.COM
...	...	...	...	...	...	...	...	...

FIG. 33

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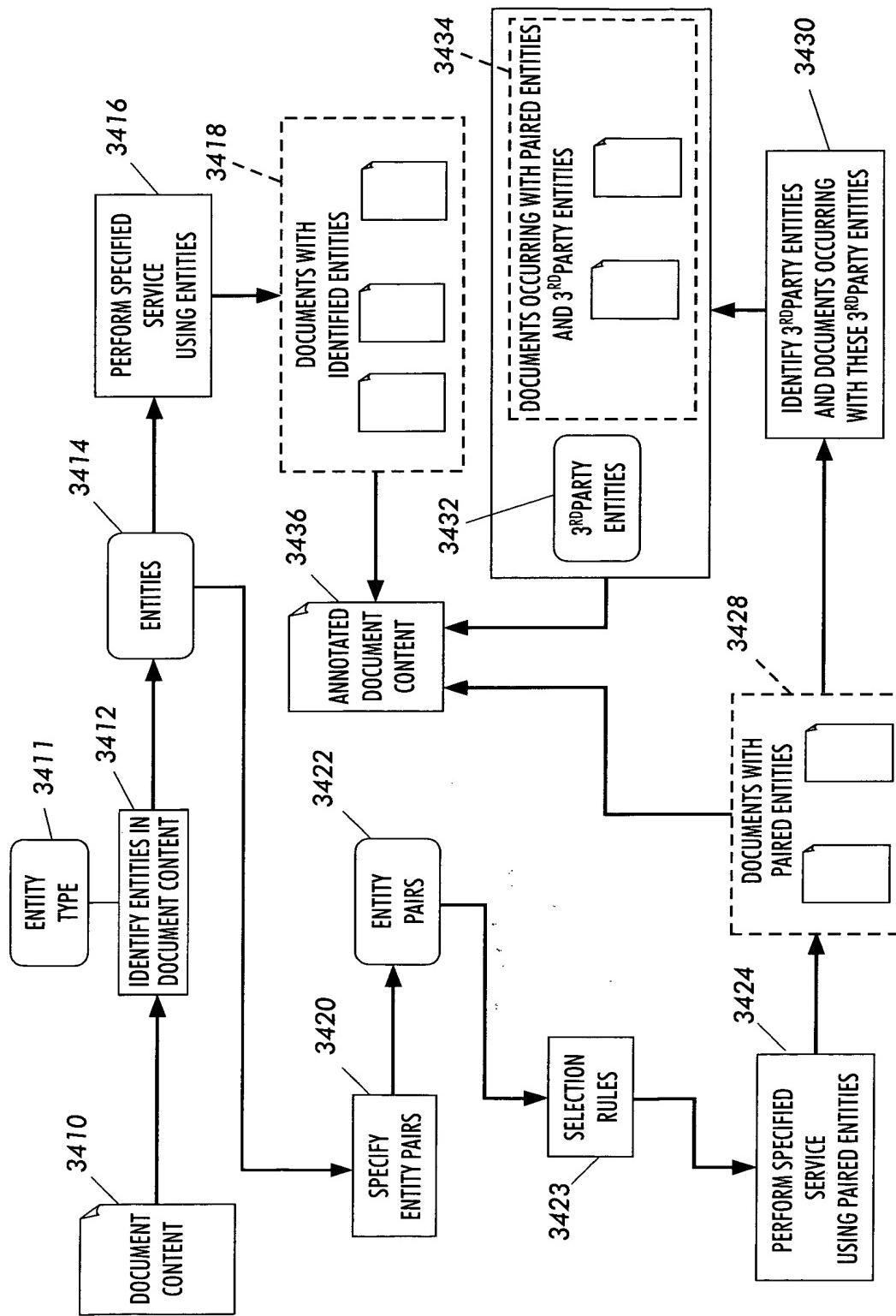
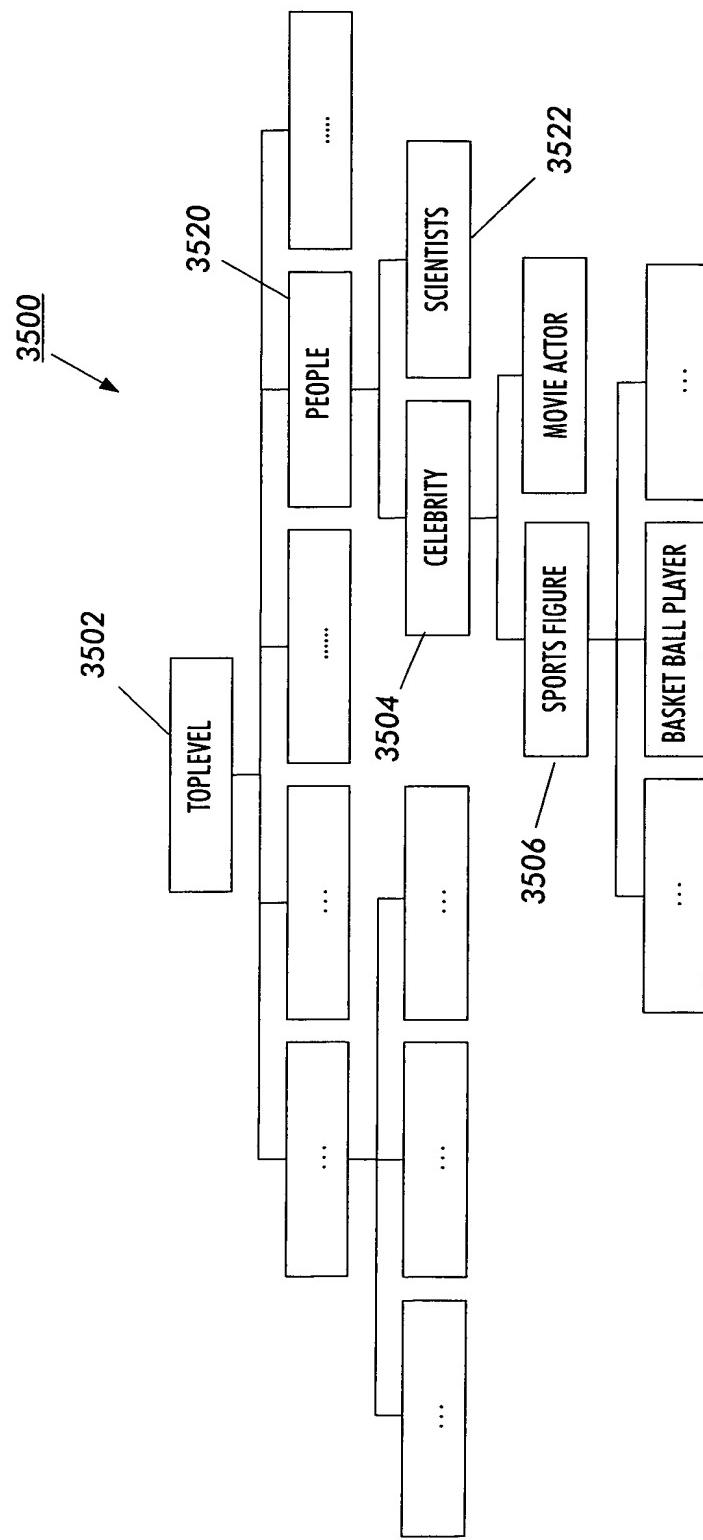


FIG. 34

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**FIG. 35**

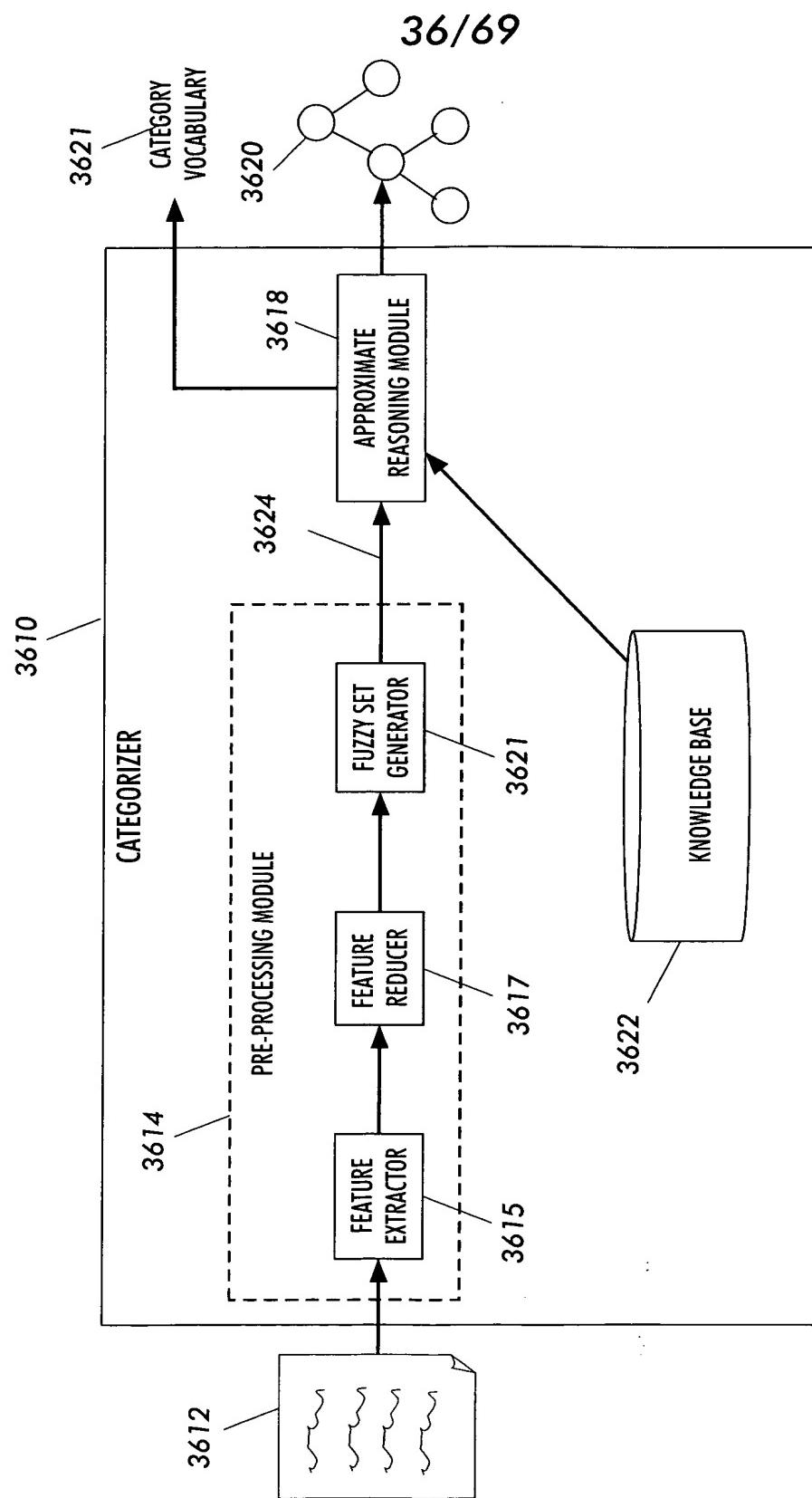


FIG. 36

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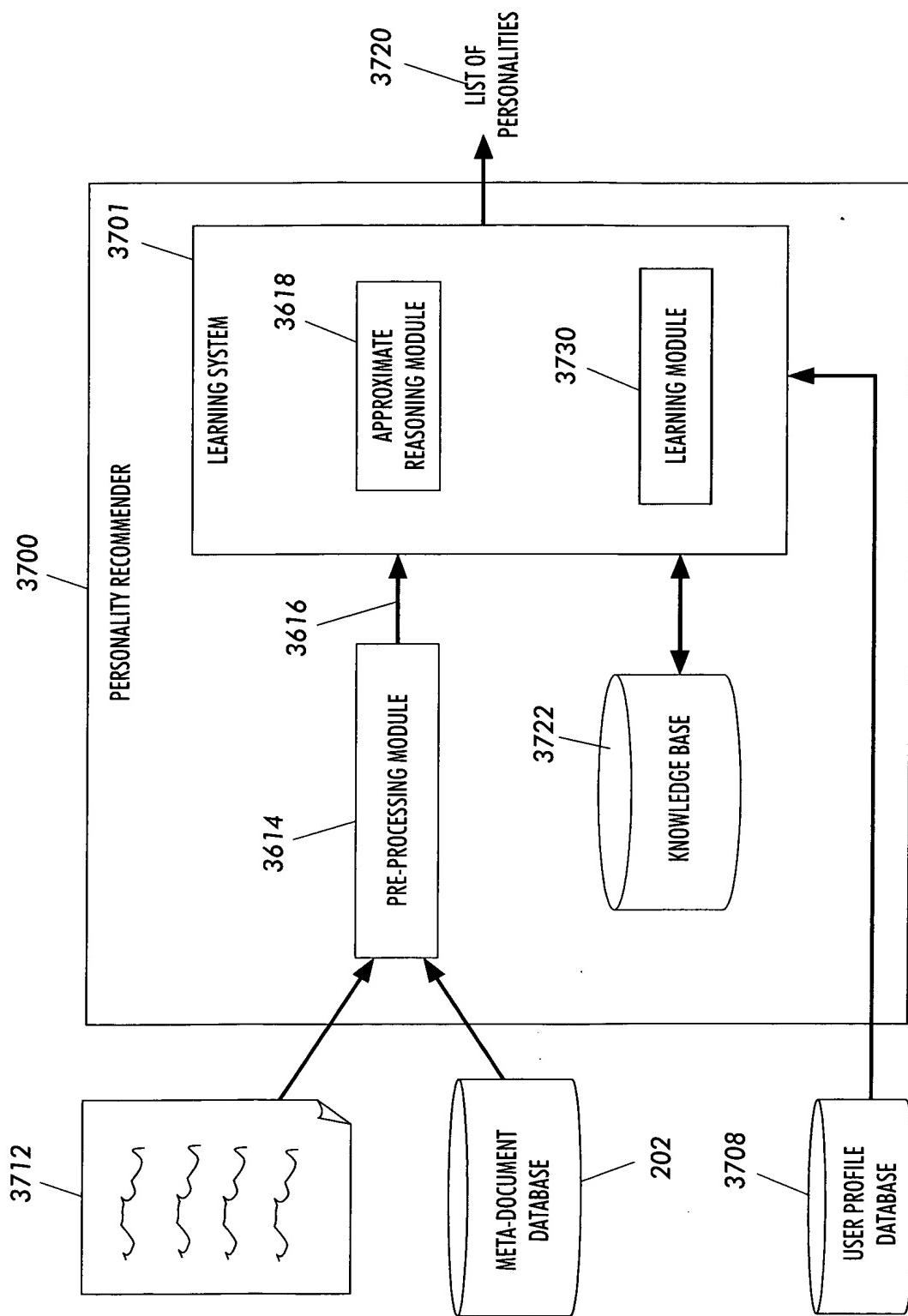


FIG. 37



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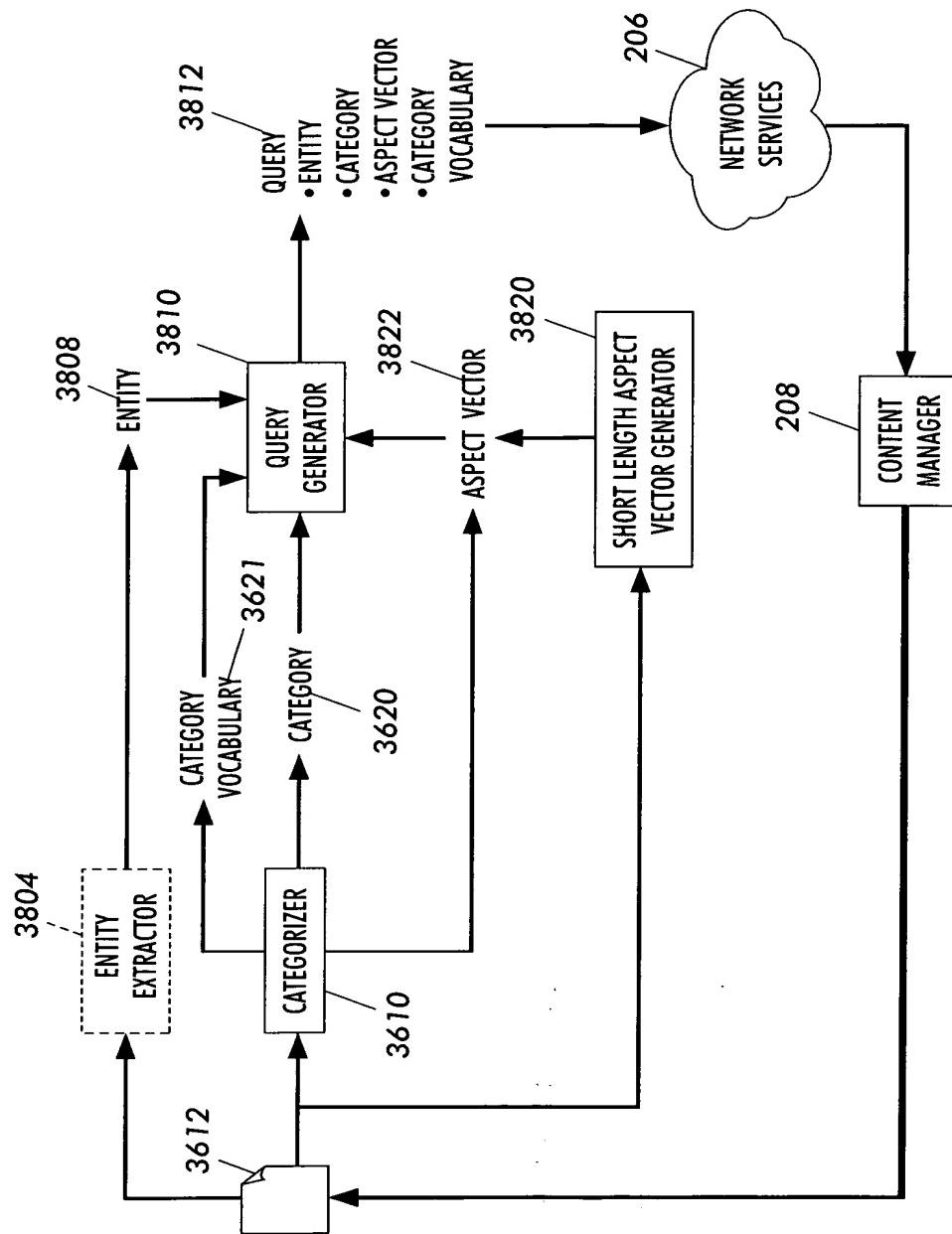
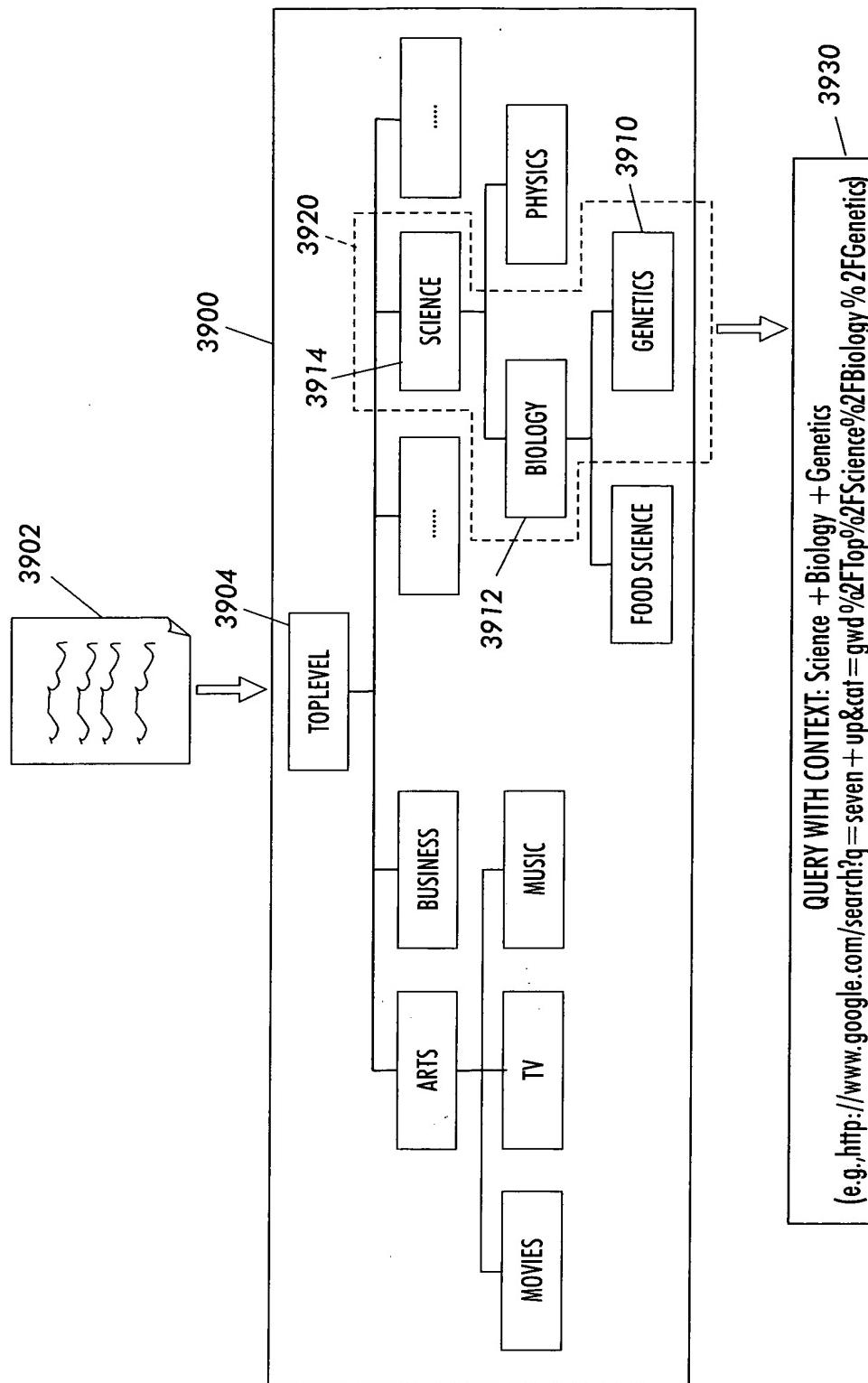


FIG. 38

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**FIG. 39**



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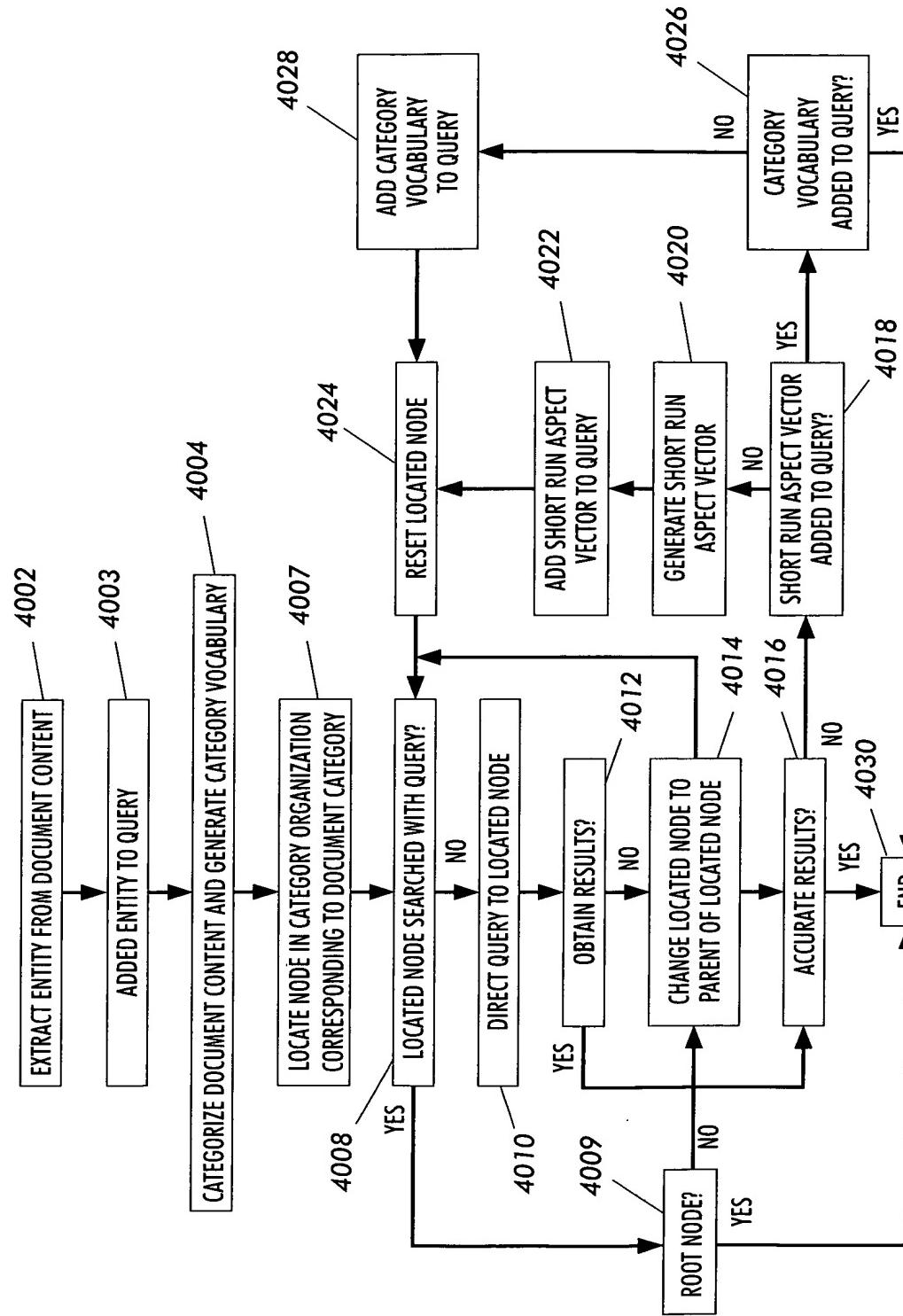


FIG. 40



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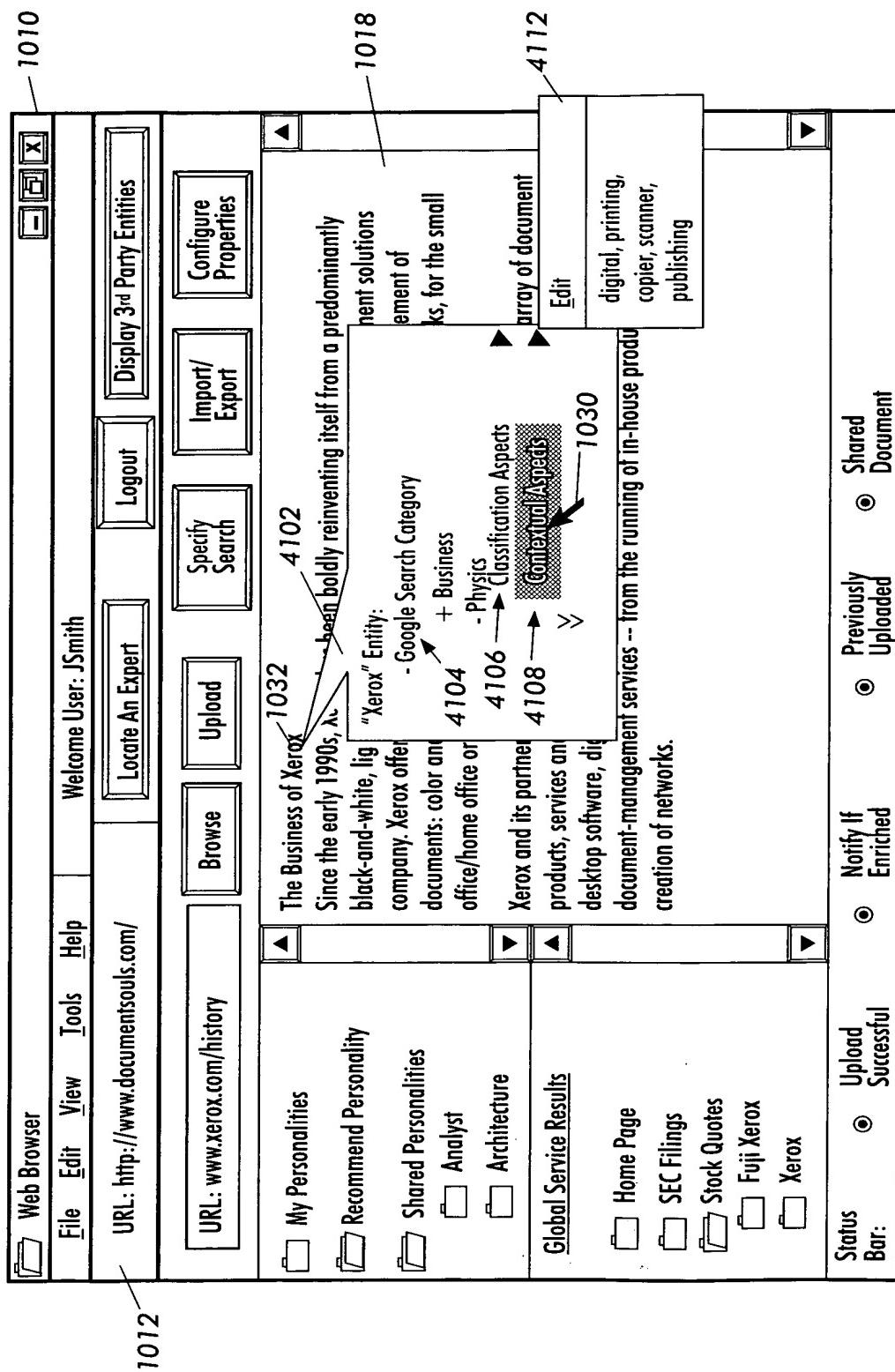


FIG. 41

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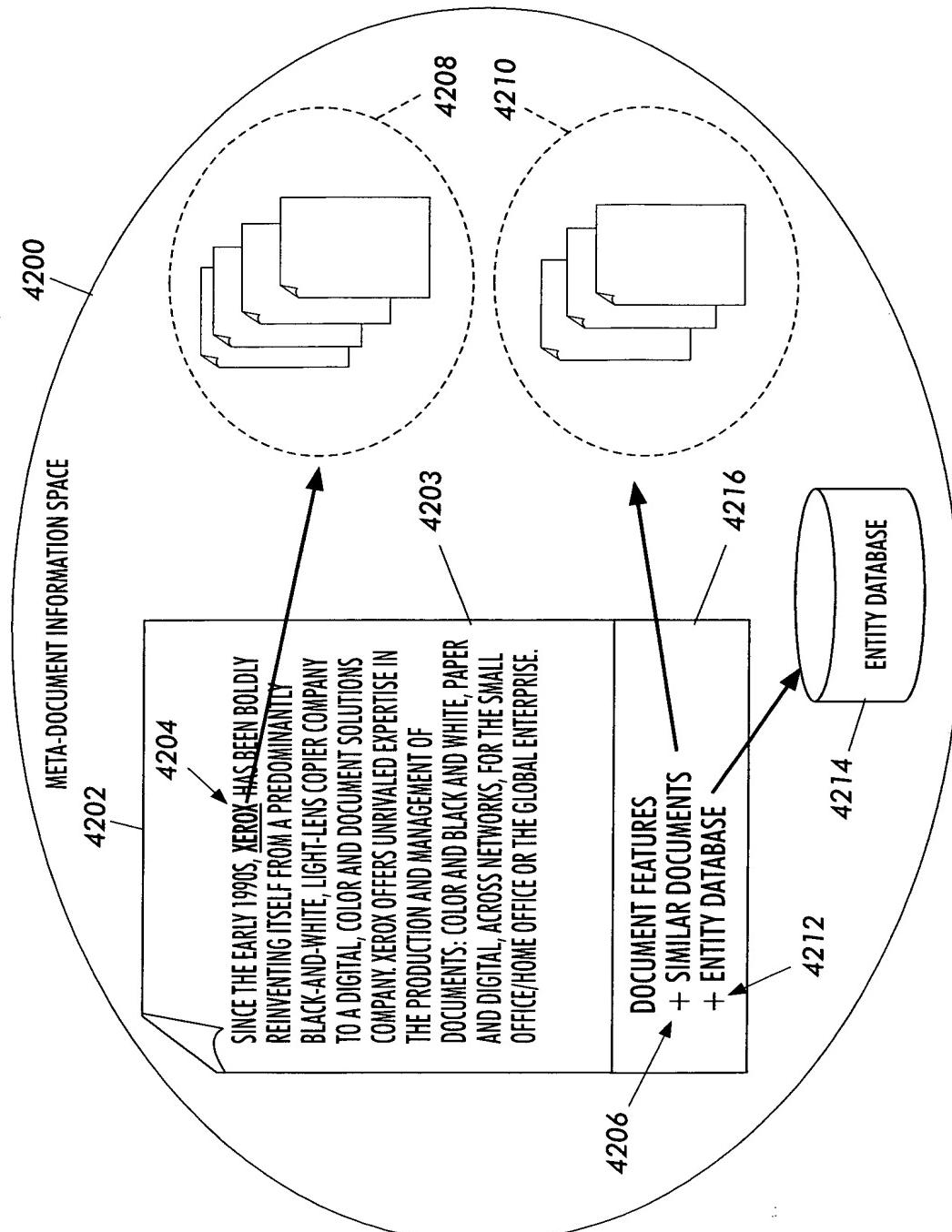


FIG. 42

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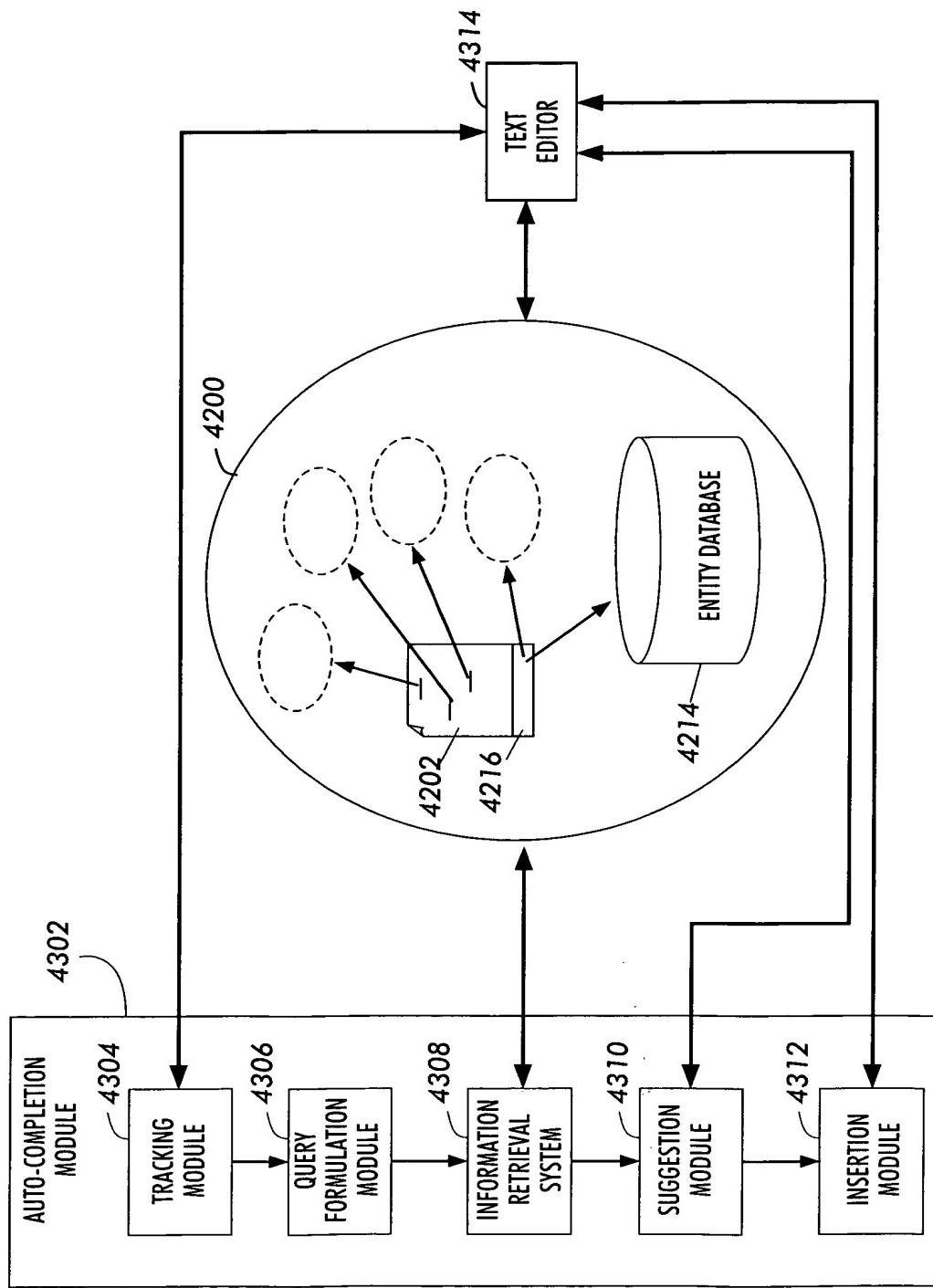


FIG. 43

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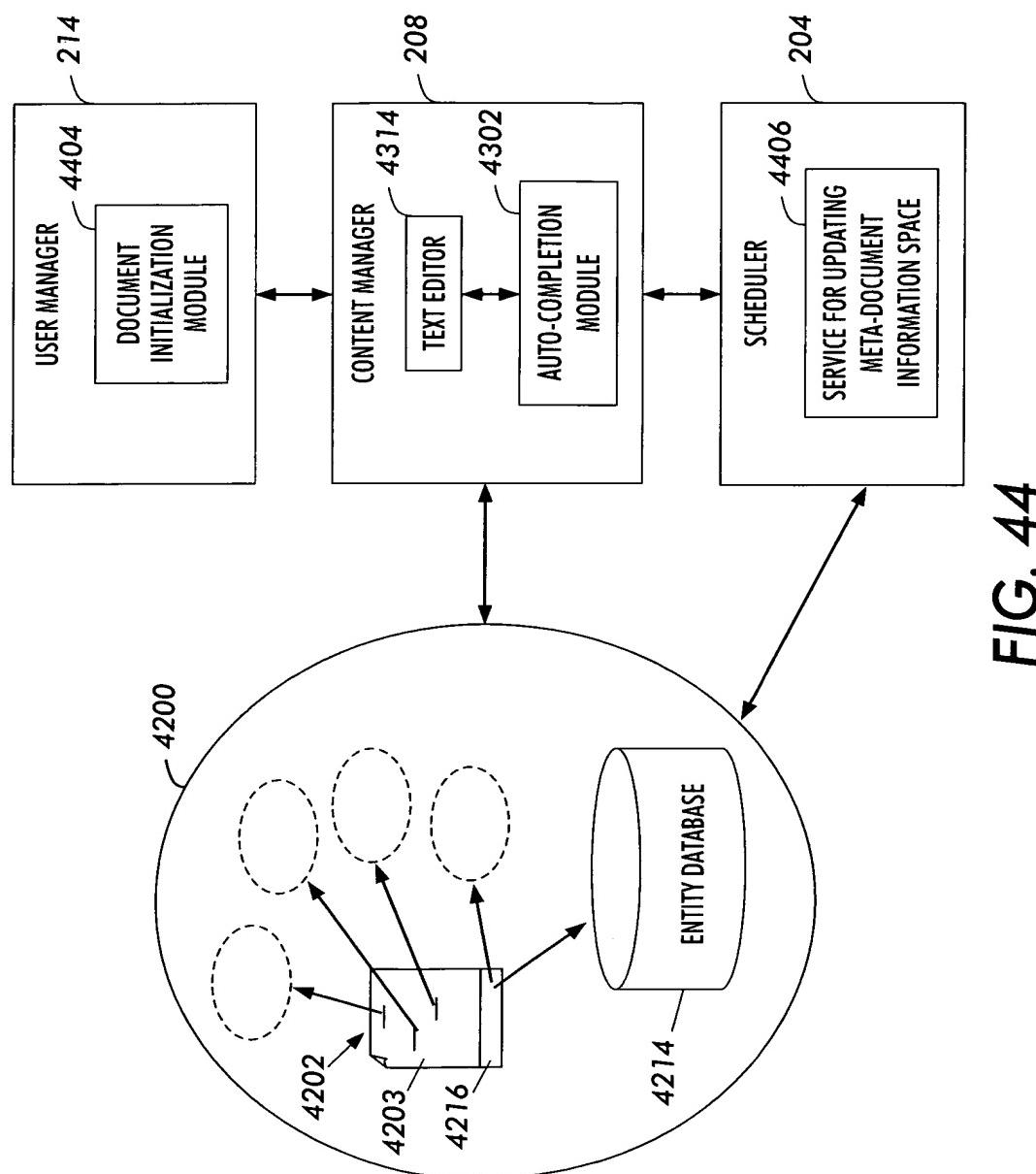


FIG. 44

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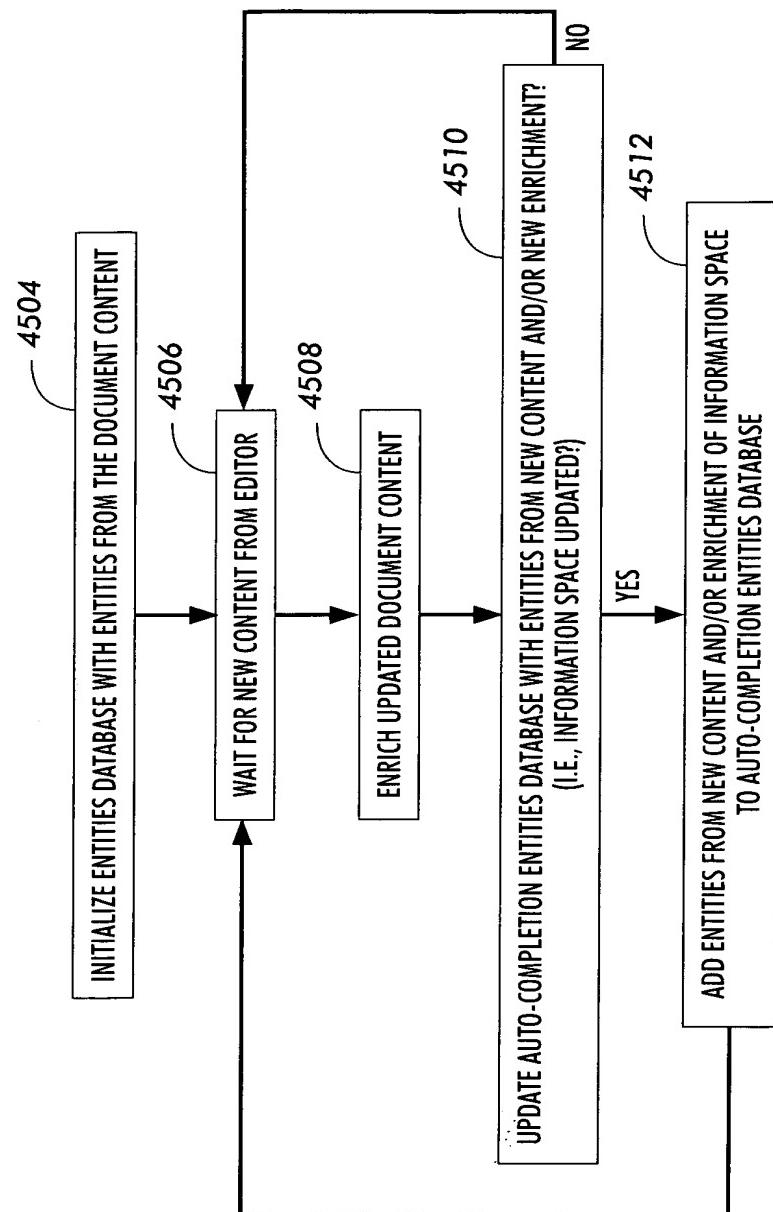


FIG. 45

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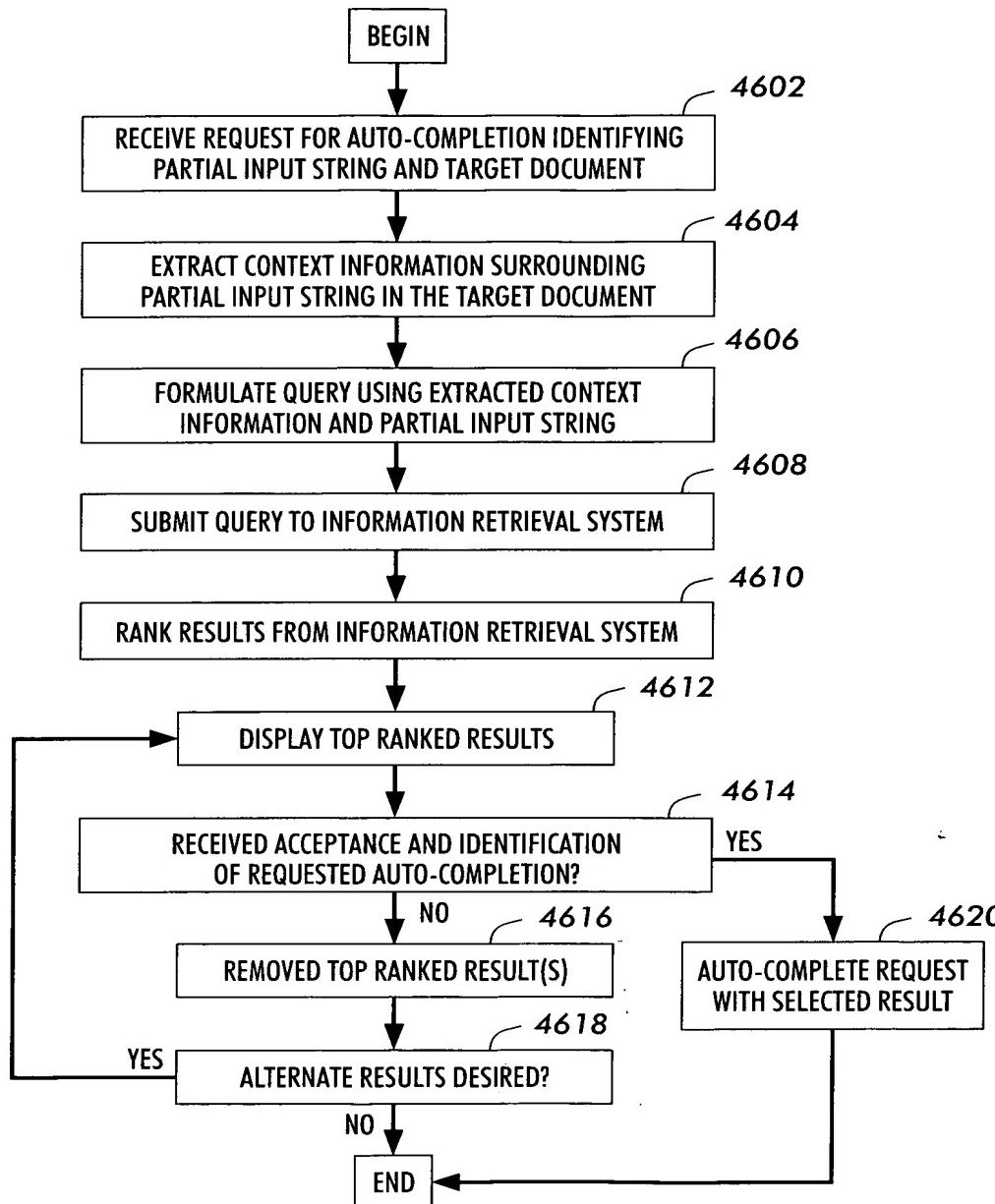


FIG. 46



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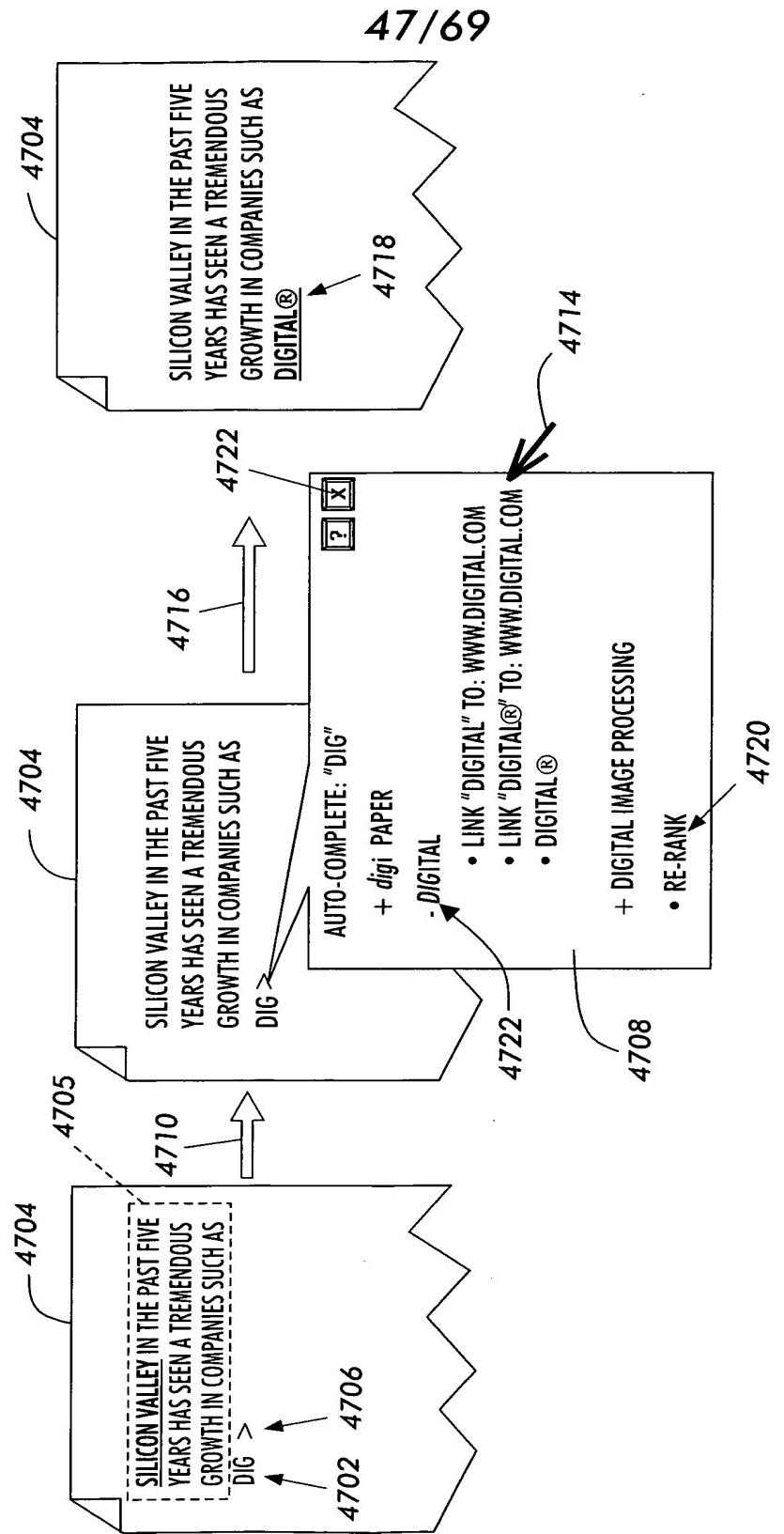


FIG. 47



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(A) KEY	(B) ENTITY	(C) MARKUP	(D) FORMAT	(E) ORIGIN CONTENT	(F) ORIGIN POSITION	(G) PART OF SPEECH	(H) CONTEXT
Sili	Silicon Valley	www.siliconvalley.com	Capitalize	TARGET DOCUMENT	1	Noun	Science
Dig	Digital	www.digital.com	®	www.digital.com	434	Adjective	Science
Dig	DigiPaper	NONE	Bold	www.parc.xerox.com	23	Noun	Science
Dig	digress	NONE	NONE	www.nytimes.com	343	Verb	Politics
...	...	...	...	...	...	...	...

FIG. 48

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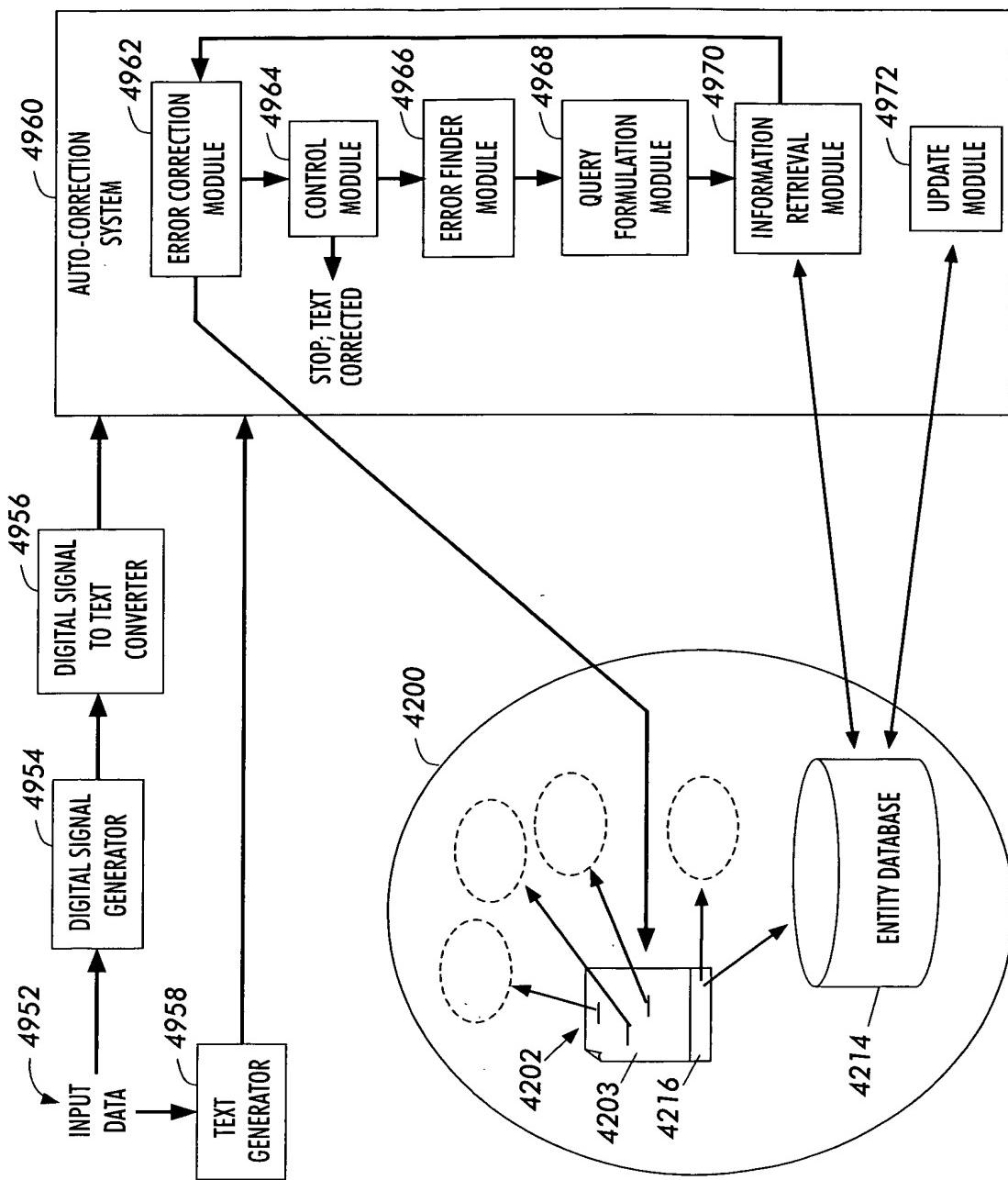
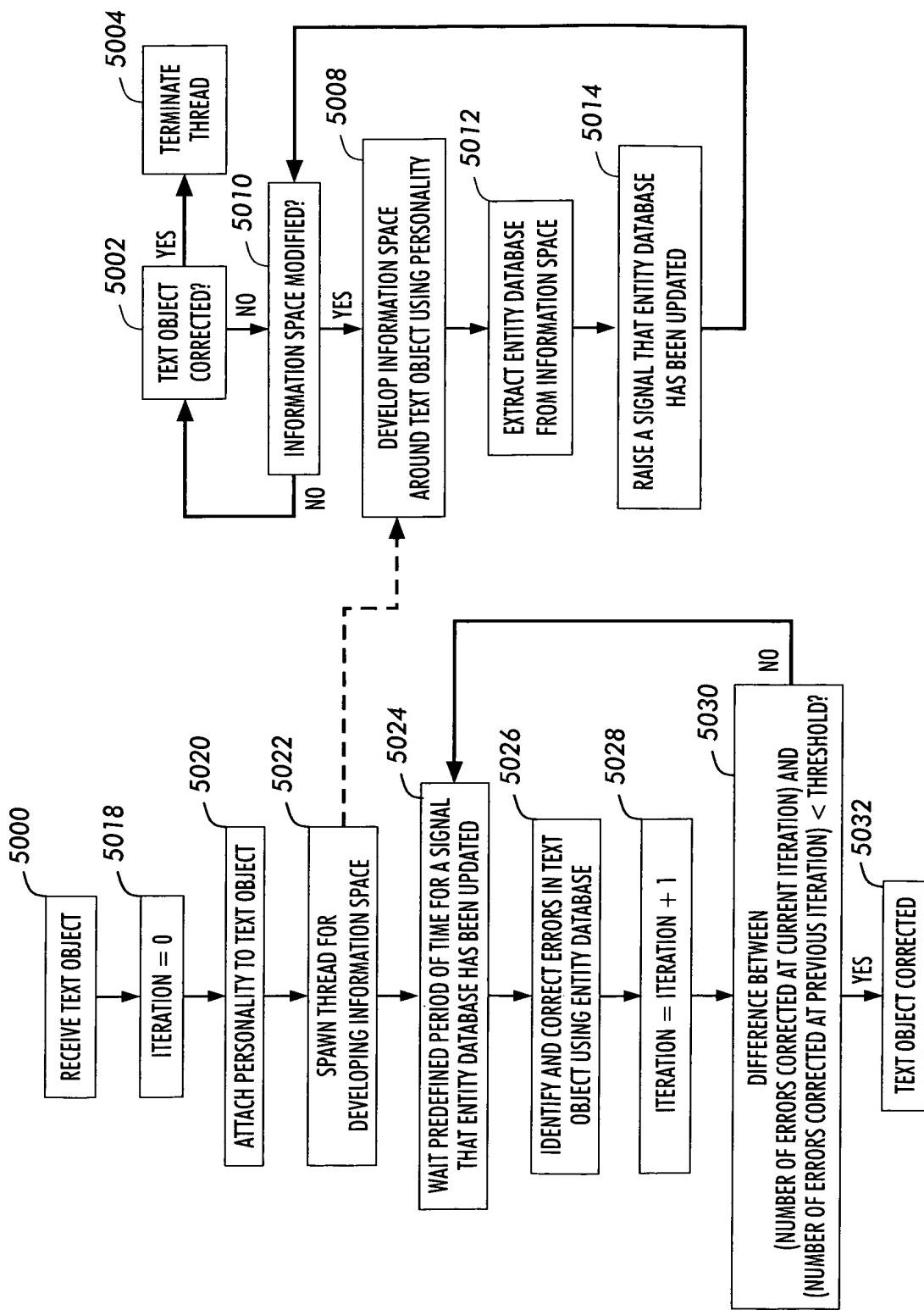


FIG. 49

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PENTAGON

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F/G. 50

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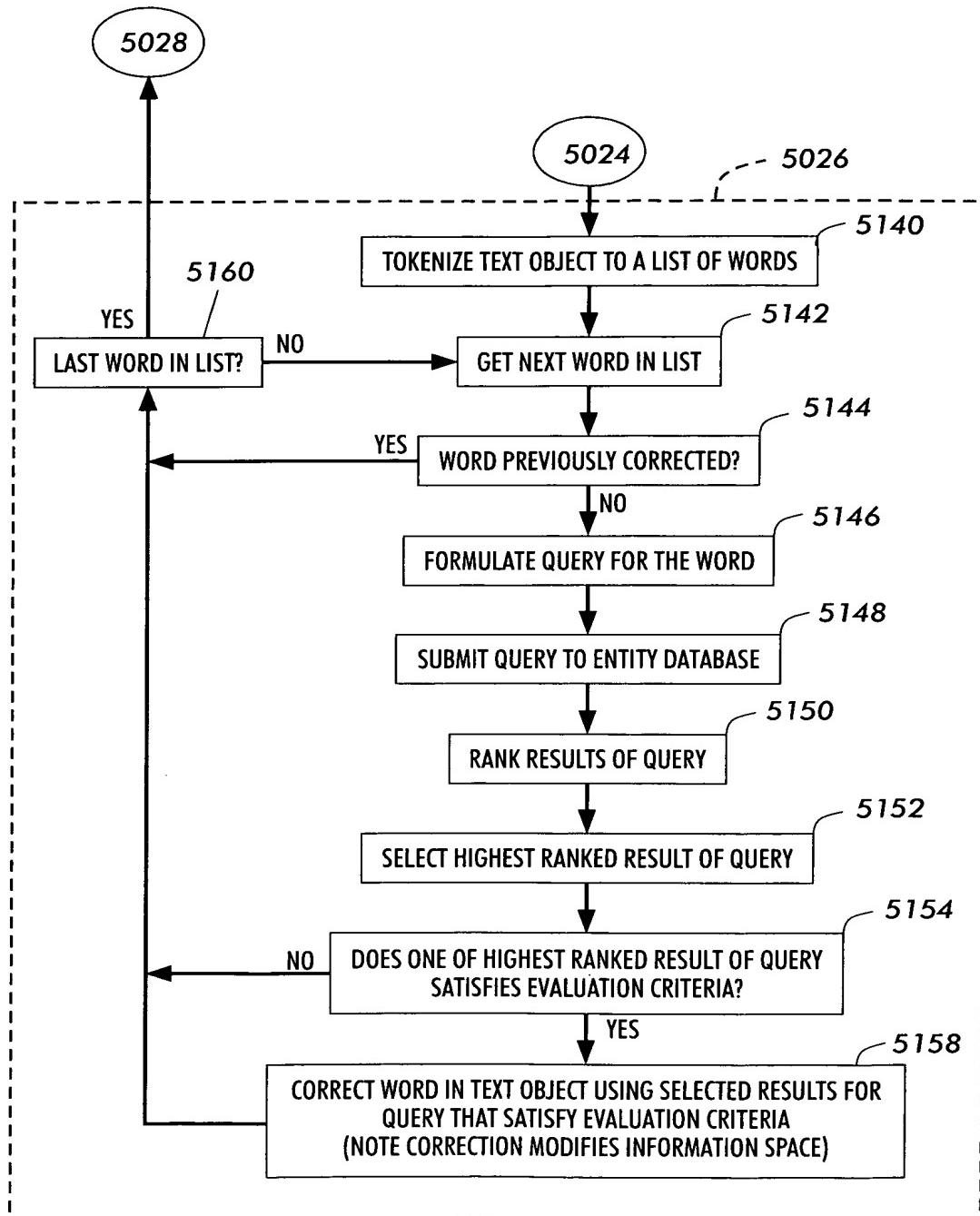


FIG. 51

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U.S. TRADEMARK OFFICE

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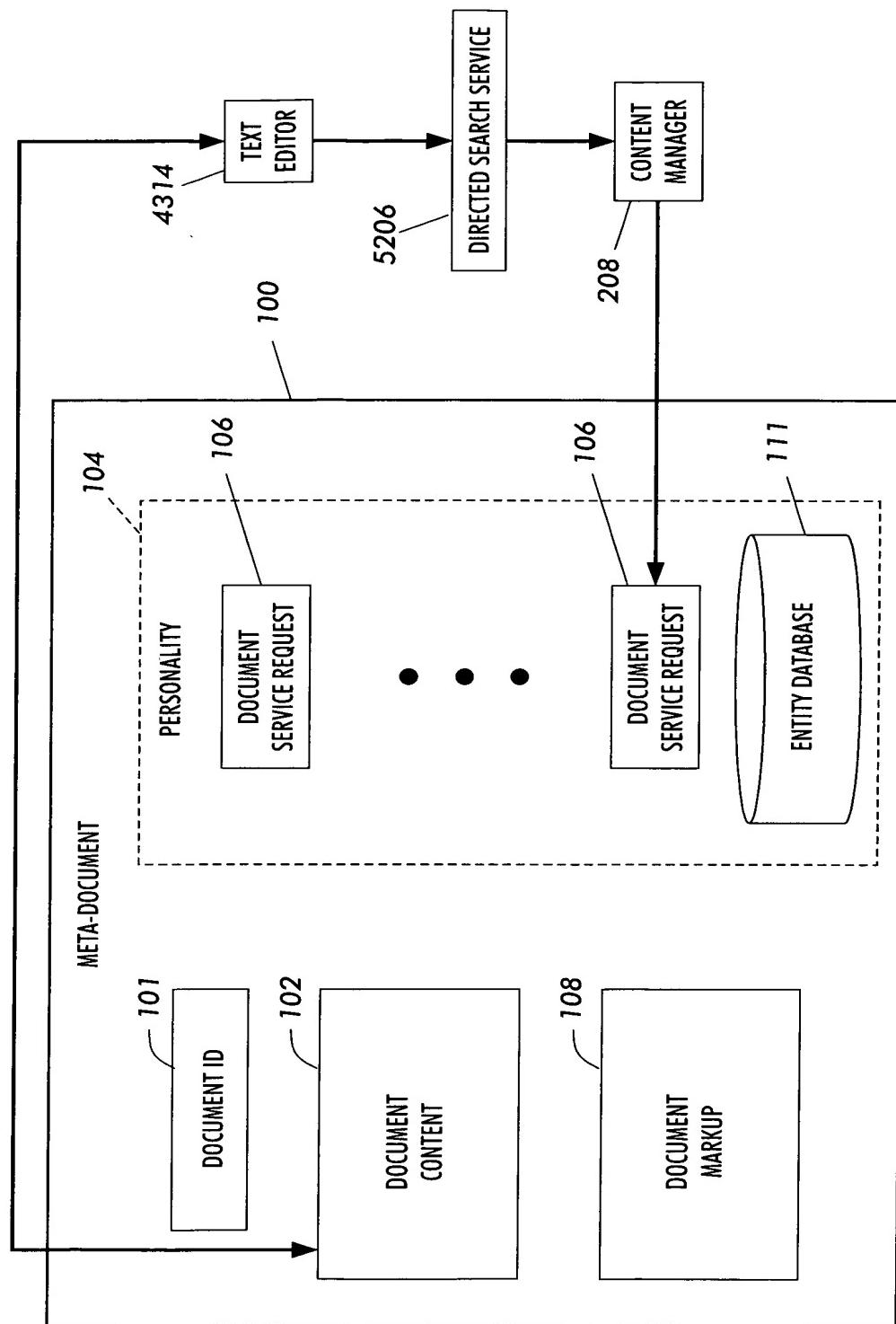


FIG. 52

O I P E  
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5300

DIRECTED SEARCH

Get: Products For: Xerox

Insert Result as:  Link  Content  Metadata

Update Frequency: Monthly

Select Providers

Reuters  
Thomson  
Hoover

Ensures:

Language of text is: English

Premium  Non-Premium

Low Quality  High Quality

Copyrighted  Not Copyrighted

Free  Paid Max price \$: 50

Maximum number of words: 2000

Search Selected Providers By:  
 Cost  
 Speed

Location Of Results:  
 After Current Selection  
 Before Current Selection  
 As Comment To Current Selection  
 As Footnote To Current Selection

Current Selection Is:  
Xerox in the past five years has seen tremendous growth

Cancel Insert

5302 5304 5306 5308 5310 5312 5315 5317 5316 5318 5320 5322 5314

FIG. 53



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5400

```
<service id='Products'  
refresh=30  
insert='Content'  
language='En'  
quality='Premium&High&Not-copyrighted&paid'  
maxprice='50'  
maxwords='2000'  
search='cost'>  
<entity>Xerox  
<offsets>13 18 456 461 710 715</offsets>  
<provider name='Thomson' id=18></provider>  
<provider name='Reuters' id=19></provider>  
</entity>  
</service>
```

FIG. 54



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5500

IMPORT/EXPORT

EXPORT NAME:  5502

EXPORT :

ORIGINAL DOCUMENT CONTENT  
 DOCUMENT MARKUP (I.E., ENRICHMENT)  
 PERSONALITIES

5506

5504

IMPORT NAME:  5512

IMPORT:

ALL CONTENT  
 SELECTED CONTENT ONLY  
 ORIGINAL DOCUMENT CONTENT  
 DOCUMENT MARKUP (I.E., ENRICHMENT)  
 PERSONALITIES

5508  
 BIND UN-MATCHED ELEMENTS

5510  
 ENHANCE BOUND ELEMENTS WITH EXISTING SERVICE PROVIDERS

5514

FIG. 55



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```
<!-- SERVER ID>
<docsouls:serverid> DS v1.0 server name </docsouls:serverid>
<!-- PROPERTIES OF DOCUMENT>
<docsouls:docid> xxx </docsouls:docid>
<docsouls:name> xxx </docsouls:name>
<docsouls:owner> xxx </docsouls:owner>
...
<!-- ORIGINAL DOCUMENTS DOCUMENT CONTENT>
<docsouls:originaldoc format="HTML">toto.html</docsouls:originaldoc>
<docsouls:browsingdoc format="HTML">browse.html</docsouls:browsingdoc>

<!-- LIST OF PERSONALITIES AND DOCUMENT SERVICE REQUESTS>
<docsouls:endowmentdescription>
<!-- LIST OF PERSONALITIES>
<docsouls:personality id = " " name="" etc.>
<docsouls:service id="" name="" etc.>
<docsouls:provider name="" etc.>
<docsouls:provider name="" etc.>
</docsouls:service>
<docsouls:personality>
...
<!-- LIST OF SERVICE REQUESTS>
<docsouls:service id="" name="" etc.>
<docsouls:provider name="" etc.>
<docsouls:provider name="" etc.>
</docsouls:service>
...
</docsouls:endowmentdescription>
```

FIG. 56



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```
<!-- DESCRIPTIONS OF PERSONALITIES>
<docsouls:personalitydescription>
<docsouls:id> xx </docsouls:id>
<!-- all the fields AND service categories>
<docsouls:servicecategory id="" name = "">
</docsouls: personalitydescription>

<!-- NEXT PERSONALITY DESCRIPTION>
...
<!-- DESCRIPTION OF DOCUMENT SERVICE REQUESTS>
<docsouls:servicedescription>
<docsouls:id> xx </docsouls:id>
<!-- list all fields (e.g., "refresh period", category, etc.)>
<!-- list all providers>
<docsouls:provider id="" name = "">
<!-- list all strategies>
<!-- list status of services (original, frozen, mapped, etc.)>
<docsouls:servicestatus status="mapped" originalid="" originalserver="">
<!-- list ServerId if the service was not available on current server>
<docsouls:serverid>id</docsouls:serverid>
</docsouls:servicedescription>

<!-- NEXT SERVICE REQUESTS DESCRIPTION>
...

```

FIG. 57



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```
<!-- DESCRIPTION OF PROVIDERS -->
<docsouls:providerdescription>
  <docsouls:id> xx </docsouls:id>
    <!-- all the fields e.g. key, URL, etc.>
  </docsouls: providerdescription >

<!-- DESCRIPTION OF DICTIONARIES -->
<docsouls:dictionarydescription>
  <docsouls:id> xx </docsouls:id>
    <!-- all the fields, e.g. category>
  </docsouls:dictionarydescription>

<!-- DESCRIPTION OF STRATEGY -->
<docsouls:strategydescription>
  <docsouls:id> xx </docsouls:id>
    <!--all the fields>
    <!--all the dictionaries>
  </docsouls: strategydescription>

<!-- RESULTS OF GLOBAL SERVICES -->
<docsouls:globalservice id="Summary">
  <docsouls:link> xxx </docsouls:link>
  <docsouls:content> xxx </docsouls:content>
</docsouls:globalservice>

<!-- OTHER RESULTS (E.G. KEYWORDS, CATEGORIES, ETC. ) -->
```

FIG. 58A



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```
<!-- (OPTIONAL) DESCRIPTION OF ENRICHMENT PERFORMED AT OTHER DOCUMENT ENRICHMENT  
SYSTEMS>  
<docsouls:serverId>olderServerId</docsouls:serverId>  
<docsouls:personalitydescription>...</docsouls: personalitydescription>...</docsouls: servicedescription>  
<docsouls:servicedescription>...</docsouls: servicedescription>  
  
<!-- (OPTIONAL) LIST OF RESULTS OF THE LAST ENRICHMENT >  
<!-- IDENTIFY DOCUMENT SECTION IN CASE OF MULTI-PART DOC >  
<docsouls:docpart>main_frame.html</docsouls: docpart>  
<!-- OFFSET WHEN ENRICHMENT APPLIES TO A SECTION >  
<docsouls:offset> 0 200 </docsouls:offset>  
<!-- STATUS OF SERVICE APPLIED ("ACTIVE" OR "FROZEN") >  
<docsouls:service id="StockQuote" status="active">  
<!-- ENTITY >  
<docsouls:entity>Xerox  
<!-- NORMALIZED FORM >  
<docsouls: normform>Xerox</docsouls: normform>  
<!-- LIST OF OFFSETS WHERE ENTITY IS FOUND IN TEXT RELATIVE TO SECTION >  
<docsouls: offsets start=35 end=40 />  
<docsouls: offsets start=232 end=237 />  
<!-- DICTIONARIES >  
<docsouls:dict> xxx </docsouls:dict>  
<!-- STRATEGIES >  
<docsouls: strat> xxx </docsouls: strat>  
<!-- LINK INFORMATION >  
<docsouls: link> xxx </docsouls: link>  
<!-- CONTENT INFORMATION >  
<docsouls: content> xxx </docsouls: content>  
</docsouls: entity>  
<!-- NEXT ENTITY>  
...  
</docsouls: service>
```

FIG. 58B

O I P E J U B A  
APR 14 2003  
PATENT & TRADEMARK OFFICE

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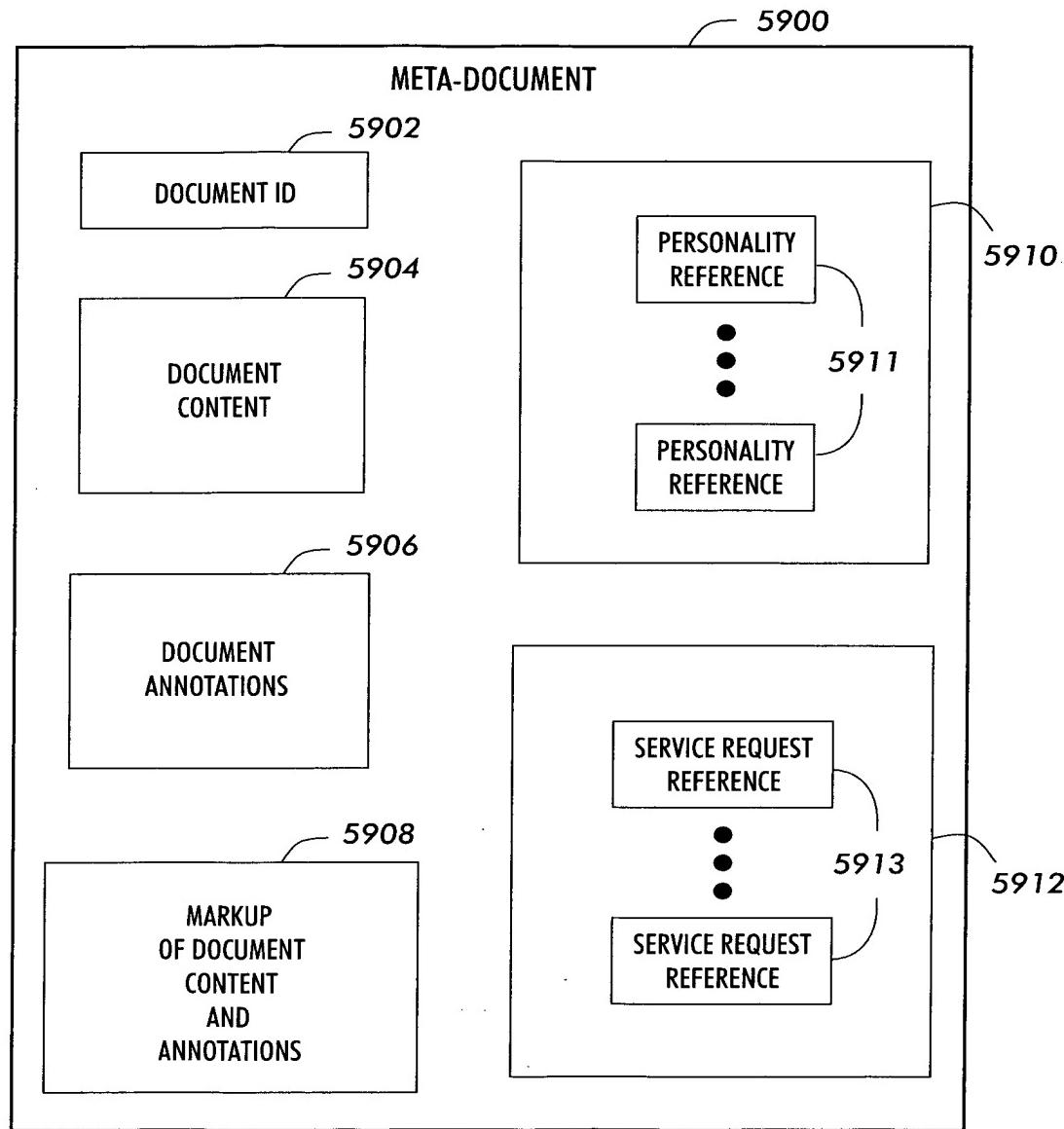
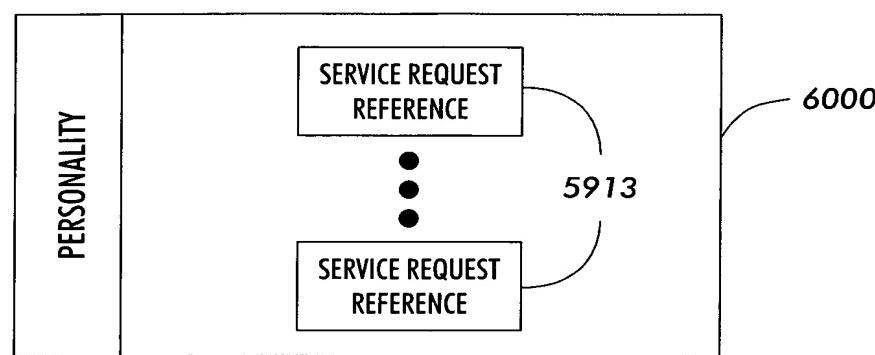


FIG. 59

O I P E  
APR 16 2003  
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**FIG. 60**



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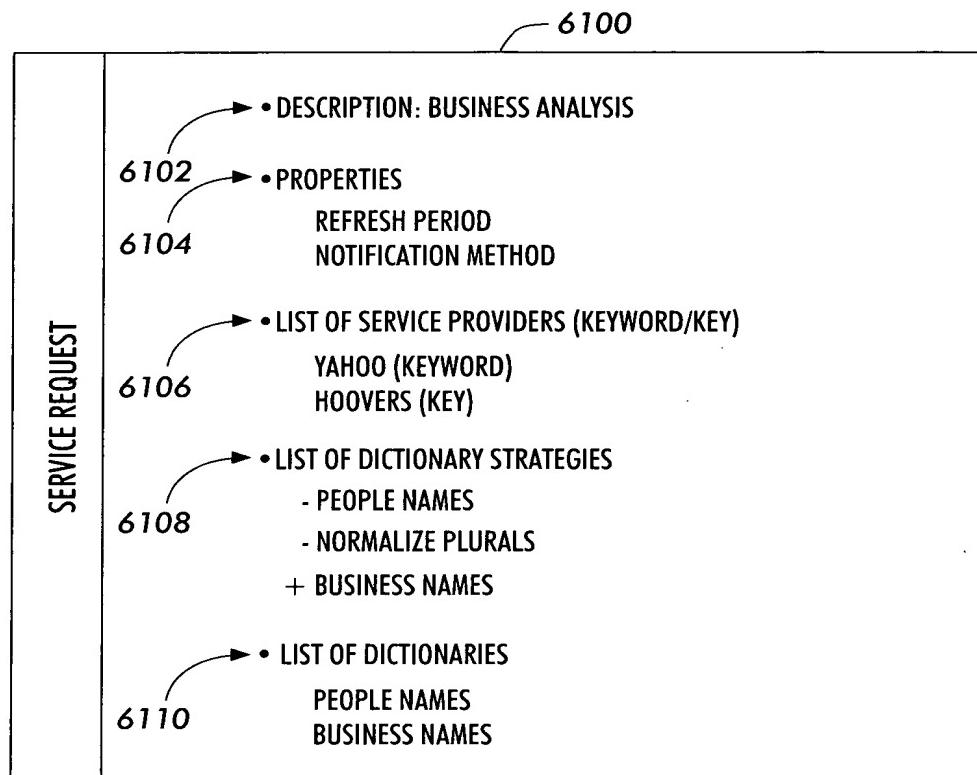


FIG. 61



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6200      Welcome to Document Souls

File Edit View Tools Help

Welcome to documentSOULS! For more information please contact us.

documentSOULS™

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- PARC
- Ethernet
- PARC's acronym
- Internet
- CA
- Web Site

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7675      7676      7677      7678      7679



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FIG. 63



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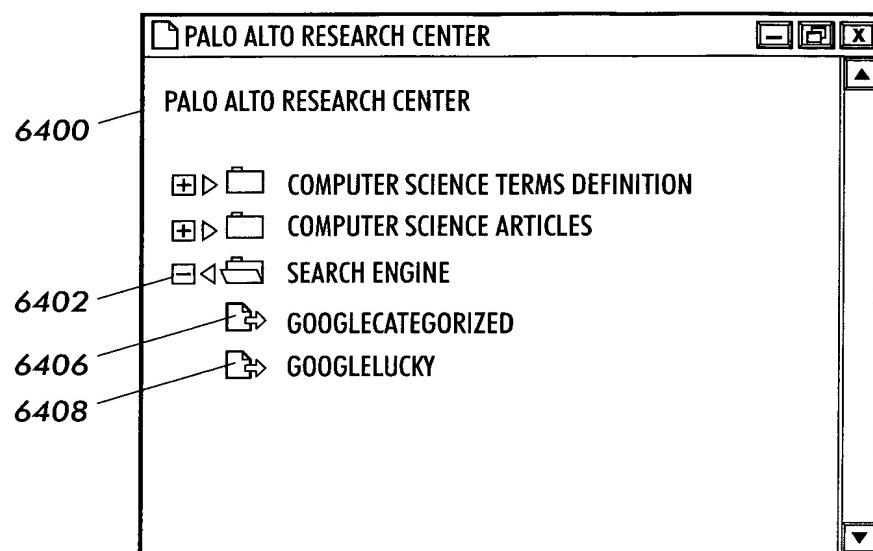
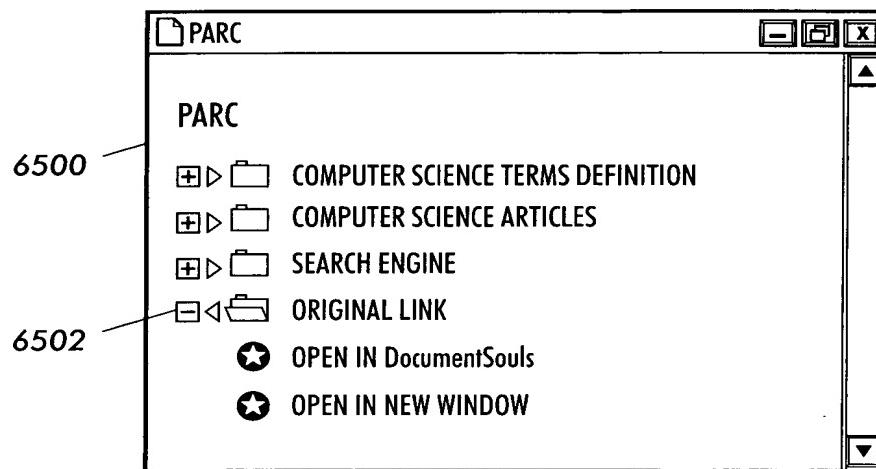


FIG. 64

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**FIG. 65**



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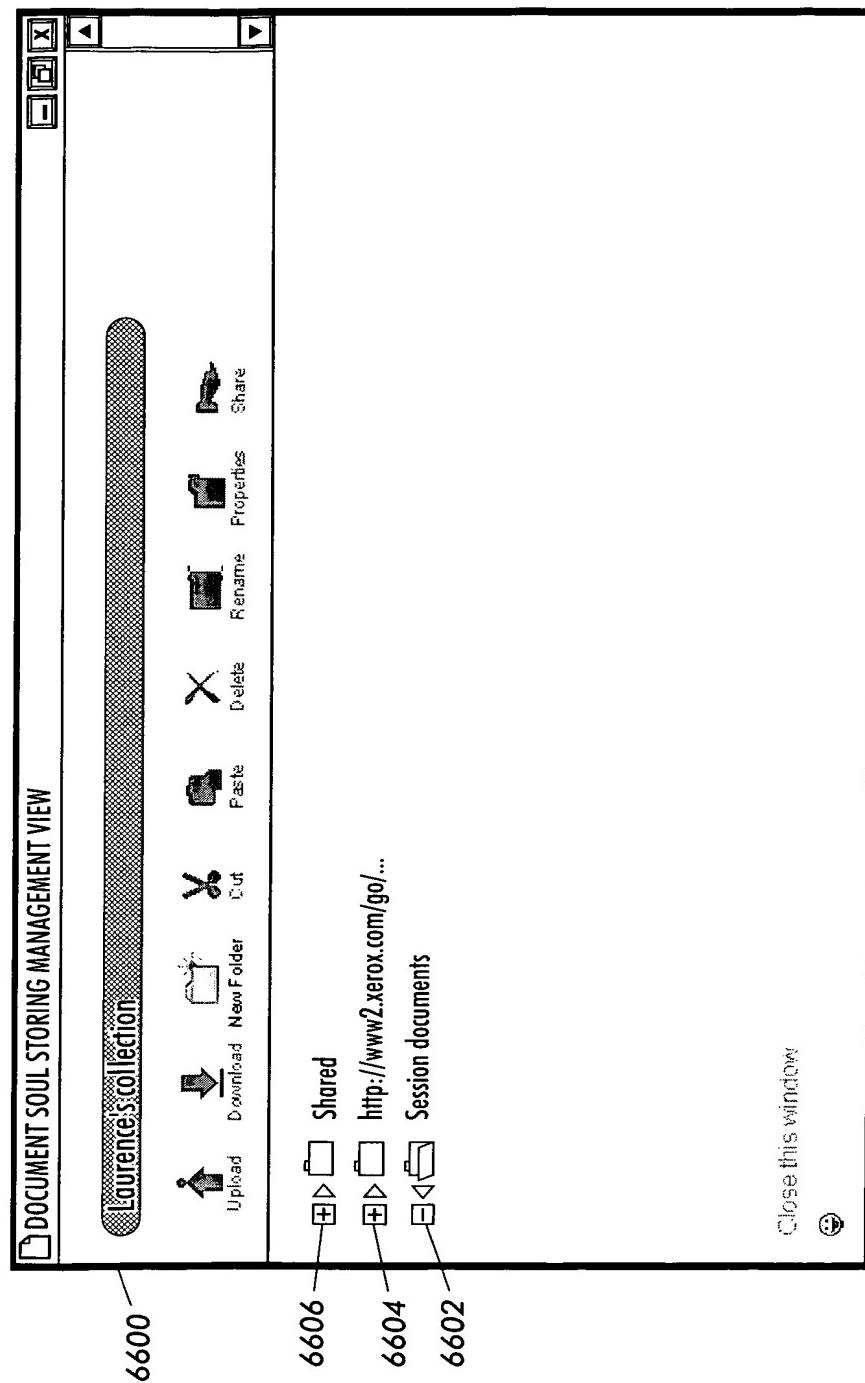


FIG. 66

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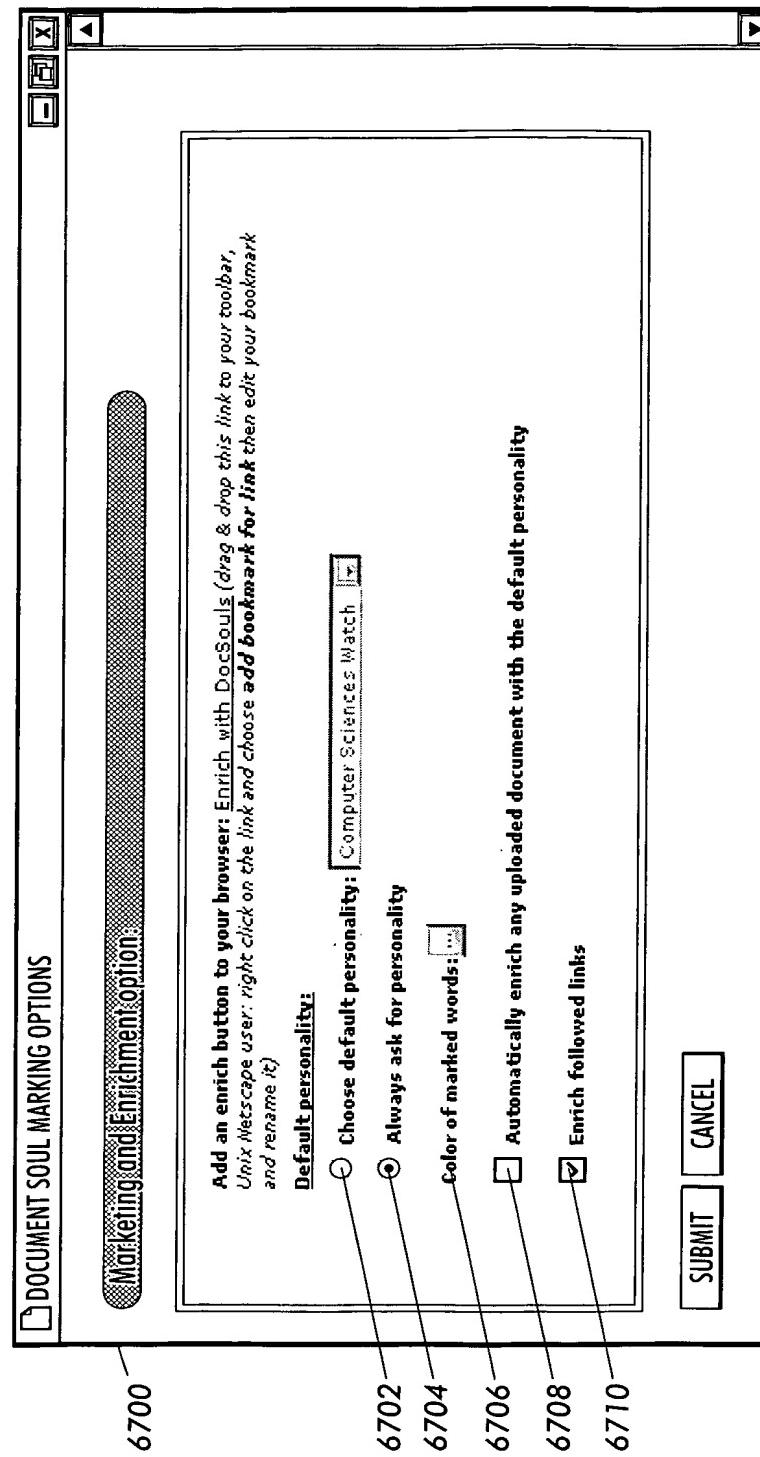


FIG. 67



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DOCUMENT SOUL SERVICES CONFIGURATION															
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<b>6800</b>  <b>6802</b>  <b>6804</b>															
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Name	Category	Select													
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names	/Society/People/	<input checked="" type="checkbox"/>													

**FIG. 68**